

University of Arkansas Bulletin

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1923	1924	1925
JULY	JANUARY	JANUARY
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
AUGUST	FEBRUARY	FEBRUARY
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
SEPTEMBER	MARCH	MARCH
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
OCTOBER	APRIL	APRIL
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
NOVEMBER	MAY	MAY
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
DECEMBER	JUNE	JUNE
S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

UNIVERSITY CALENDAR

1924

Entrance examinations, etc.....Monday-Tuesday, Sept. 22-23
Registration for fall term.....Wednesday-Saturday, Sept. 24-27
Fall term begins, 8:00 a. m.....Monday, Sept. 29
Thanksgiving holidayThursday, Nov. 27
Registration for winter term.....Monday-Friday, Dec. 15-18
Fall term ends, 5:00 p. m.....Saturday, Dec. 20

1925

Winter term begins, 8:00 a. m.....Monday, Jan. 5
Registration for spring term.....Monday-Friday, March 16-19
Winter term ends, 5:00 p. m.....Thursday, March 26
Spring term begins, 8:00 a. m.....Tuesday, March 31
Spring term ends, 5:00 p. m.....Saturday, June 13
Baccalaureate sermonSunday, June 14
Commencement dayTuesday, June 16
Registration for summer term.Wednesday-Saturday, June 17-20
Summer term begins, 8:00 a. m.....Monday, June 22
Summer term ends, 5:00 p. m.....Saturday, Aug. 1

BOARD OF TRUSTEES

The Governor of Arkansas.....*Ex-Officio*
THOMAS C. McRAE, Little Rock.

The State Superintendent of Public Instruction.....*Ex-Officio*
A. B. HILL, Little Rock.

Expiration of Term

A. B. BANKS, Fordyce.....1923
FRANK PACE, Little Rock.....1923
JAMES D. HEAD, Texarkana.....1925
JOE K. MAHONY, El Dorado.....1925
HARRY L. PONDER, Walnut Ridge.....1925
HUGH A. DINSMORE, Fayetteville.....1927
JAMES K. BROWNING, Piggott.....1927

OFFICERS

Chairman.....GOVERNOR THOMAS C. McRAE
Secretary and Auditor.....WILLIAM H. CRAVENS, Fayetteville

COMMITTEES

Note.—The name of the chairman stands first.

Agricultural Extension—Messrs. Browning, Pace, and Banks.

Board of Control of the Agricultural Experiment Station—

The Committee on the College of Agriculture, the President of the University, and the Director of the Experiment Station.

Branch Normal School—Messrs. Hill, Banks, and Mahony.

Buildings and Grounds—Messrs. Dinsmore, Ponder, and Browning.

College of Agriculture—Messrs. Browning, Ponder, and Pace.

Executive—Governor McRae, Messrs. Mahony, Head, and Dinsmore.

Finance—Messrs. Banks, Head, and Dinsmore.

Medical College—Messrs. Pace, Hill, and Head.

Teachers—Messrs. Hill, Mahony, and Head.

GOVERNMENT

The government of the University is vested primarily in a Board of Trustees, consisting of the Governor of the State and the State Superintendent of Public Instruction, as ex-officio members, and seven other members, appointed by the Governor for a term of six years.

The administration of the University is vested in the President, the University Council, the University Senate, and the faculties and deans of the various colleges.

The President is the administrative head of the University. The University Council is composed of the President, the deans of the several colleges, and four other members, appointed by the President. The Council is the central executive body of the University and is advisory to the President.

The University Senate is composed of the President, the deans, and all heads of departments and full professors. The Senate is the general legislative body of the University.

The faculty of each college within the University has jurisdiction, subject to higher University authority, over all matters that concern exclusively that college.

The dean of each college is responsible for the carrying out of all University regulations within his college. The Dean of Women acts as an advisor to women undergraduate students and is charged with the general care and conduct of these students.

A system of student government under faculty guidance known as "The Associated Students of the University of Arkansas" is now in successful operation. Through student-elected officers, a Student Senate, an Advisory Council, and other boards, a close form of control by the students themselves is effective over all student activities.

OFFICERS OF ADMINISTRATION

Note.—The first date after a title indicates the year of appointment to present rank; the second, the year of first appointment to any position in the University. Where they coincide, only one date is given.

- JOHN CLINTON FUTRALL, B. A., M. A. (University of Virginia), LL. D. (Tulane University). *President*, 1913, 1894.
- WILLIAM NATHAN GLADSON, B. M. E., E. E. (Iowa State College), Ph. D. (McLemorsville College). *Vice-President, Dean of the College of Engineering, and Director of the Engineering Experiment Station*, 1923, 1894.
- GEORGE WESLEY DROKE, B. A., M. A. (University of Arkansas), LL. D. (Hendrix College). *Dean of the College of Arts and Sciences*, 1915, 1880.
- JAMES RALPH JEWELL, B. A., M. A. (Coe College), Ph. D. (Clark University). *Dean of the College of Education*, 1913.
- BRADFORD KNAPP, B. S. (Vanderbilt University), LL. B. (University of Michigan), D. Agr. (Maryland Agricultural College). *Dean of the College of Agriculture and Director of the Agricultural Experiment Station*, 1920. (Term ended October 1, 1923.)
- DAN THOMAS GRAY, B. S., B. A. (University of Missouri), M. S. (University of Illinois). *Dean of the College of Agriculture and Director of the Agricultural Experiment Station*, 1923. (Term began January 1, 1924.)
- MARTIN NELSON, B. S. A., M. S. (University of Wisconsin). *Vice-Dean of the College of Agriculture and Vice-Director of the Agricultural Experiment Station*, 1920, 1908.
- GILES EMMETT RIPLEY, B. A., M. S. (Purdue University). *Dean of Men*, 1923, 1908.
- MARTHA MCKENZIE REID, A. M. (University of Missouri). *Dean of Women*, 1923.
- ARTHUR MCCrackEN HARDING, B. A. (University of Arkansas), M. A., Ph. D. (University of Chicago). *Director, General Extension Division*, 1919, 1905.
- T. ROY REID, *Acting Assistant Director, Agricultural Extension Division*, 1923.
- PEARL MARION FEARS, *Registrar*, 1922, 1918.
- JOHN CLARK JORDAN, B. A. (Knox College), M. A., Ph. D. (Columbia University). *Examiner*, 1919, 1918.
- WILLIAM HAMPTON CRAVENS, *Treasurer, and Secretary of the Board of Trustees*, 1911.
- THORGNY CEDRIC CARLSON, B. A. (University of Minnesota). *Business Manager*, 1923, 1915.
- ALLAN ARTHUR GILBERT, M. D. (Washington University). *Professor of Hygiene, and University Physician*, 1923.
- MURRAY SHEEHAN, B. A. (Miami University), M. A. (Harvard University). *Director of Press Bureau*, 1920.
- JULIA RAMSEY VAULX, B. A. (University of Arkansas), M. A. (Cornell University). *Librarian*, 1914.

- BOLLING JAMES DUNN, B. A., M. A. (Bethel College), LL. D. (Ouachita College). *Assistant Librarian*, 1917, 1894.
- JIM P. MATTHEWS, B. A. (University of Arkansas). *Reference Librarian*, 1917.
- BEATRICE SIMS, B. A. (University of Missouri). *Catalog Librarian*, 1920.
- MARGARET GALLOWAY, *Librarian, College of Agriculture and Experiment Station*, 1916.
- HELEN HUDGINS, B. A. (University of Arkansas). *Library Assistant*, 1922.
- BUNN BELL, B. A. (University of Arkansas). *Secretary to the President*, 1923.
- FRANCIS ALBERT SCHMIDT, LL. B. (University of Nebraska). *Director of Athletics*, 1922.
- WILLIAM JASPER MILLER, E. E. (University of Texas), S. M. E. E. (Massachusetts Institute of Technology). *Research Engineer*, 1923.
- GUY BRADEN IRBY, B. M. E. (University of Arkansas). *Co-ordinator, Veterans' Bureau*, 1922, 1920.
- BERTHA HANSEN, B. S. (University of Chicago). *Manager and Dietitian, University Dining Halls*, 1923.
- JOHN HARLEY ANDREWS, B. S. (University of Illinois). *Chief Accountant*, 1923.
- HELEN CLAIRE BATTRICK, B. A. (Ohio University). *Y. W. C. A. Secretary*, 1922.
- WILLIAM SEDGEWELL GREGSON, *Y. M. C. A. Secretary*, 1919.
- LOUIS P. CALDWELL, *Superintendent of Buildings and Grounds*, 1923.
- MRS. J. E. CAMPBELL, *Matron, Carnall Hall*, 1907.
- MRS. W. A. ELLIS, *Matron, Men's Dormitories*, 1923.

FACULTY

Note.—The first date after a title indicates the year of appointment to present rank; the second, the year of first appointment to any position in the University. Where they coincide, only one date is given.

†Member of Agricultural Experiment Station Staff.

*Leave of absence.

‡Member of Engineering Experiment Station.

PROFESSORS, ASSOCIATE AND ASSISTANT
PROFESSORS

- †WILLIAM J. BAERG, B. A. (University of Kansas), Ph. D. (Cornell University). *Professor of Entomology*, 1920, 1918.
- †WILLIAM LESLIE BLEECKER, D. V. M. (Ohio State University). *Professor of Bacteriology and Pathology*, 1919, 1918.
- LEONA FLORENCE BOWMAN, Ph. B. (University of Chicago), A. M. (University of Chicago). *Assistant Professor of Home Economics*, 1923.

- JOHN THEODORE BUCHHOLZ, B. S. (Iowa Wesleyan College), B. A. (University of Iowa), M. S., Ph. D. (University of Chicago). *Professor of Botany*, 1919.
- JOE HENRY BUX, D. V. S. (Kansas City Veterinary College). *Professor of Veterinary Science*, 1920.
- GEORGE NEWTON CADE, B. S., M. A. (University of Chicago). *Professor of Educational Training*, 1921.
- GILBERT HAVEN CADY, B. A., M. A. (Northwestern University), Ph. D. (University of Chicago). *Professor of Geology*, 1920.
- ALAN DITCHFIELD CAMPBELL, B. A. (Rutgers), M. A. (Princeton), Ph. D. (Cornell). *Assistant Professor of Mathematics*, 1923.
- DEANE G. CARTER, B. S. in A. E. (Iowa State College). *Professor of Agricultural Engineering*, 1922.
- †JOHN RALPH COOPER, B. S. (Kansas State Agricultural College), M. S. (University of Nebraska). *Professor of Horticulture*, 1918.
- SAMUEL CLAUDIUS DELLINGER, B. A. (Trinity College), M. A. (Columbia University). *Acting Professor of Zoology*, 1922, 1921.
- MACEY LILLARD DILL, Captain, U. S. Army. *Associate Professor of Military Art*, 1921.
- GEORGE WESLEY DROKE, B. A., M. A. (University of Arkansas), LL.D. (Hendrix College). *Professor of Mathematics*, 1897, 1880.
- BOLLING JAMES DUNN, B. A., M. A. (Bethel College), LL.D. (Ouachita College). *Emeritus Associate Professor of Mathematics*, 1917, 1894.
- †HENRY EDMUND DVORACHEK, B. S. A. (University of Minnesota). *Professor of Animal Husbandry*, 1915.
- THOMAS ALBERT FRITTS, Diploma (North Texas State Teachers' College), B. S. in A. E., M. S. A. E. (Texas Agricultural and Mechanical College). *Assistant Professor of Agricultural Education*, 1923.
- HARRISON CRANDALL GIVENS, B. M. E. (Cornell University), B. S. E. (University of Chicago). *Professor of Industrial Education*, 1918.
- ‡WILLIAM NATHAN GLADSON, B. M. E., E. E. (Iowa State College), Ph. D. (McLemorsville College). *Professor of Electrical Engineering*, 1895, 1894.
- THEODORE GREGORY GRONERT, B. A., M. A., Ph. D. (University of Wisconsin). *Associate Professor of History*, 1922.
- ‡HARRISON HALE, B. A. (Emory College), M. S. (University of Chicago), Ph. D. (University of Pennsylvania). *Professor of Chemistry*, 1918.
- ARTHUR MCCrackEN HARDING, B. A. (University of Arkansas), M. A., Ph. D. (University of Chicago). *Professor of Mathematics*, 1916, 1905.

- GEORGE EVERETT HASTINGS, B. A. (Princeton University), M. A. (Princeton University and Harvard University), Ph. D. (Harvard University). *Associate Professor of English*, 1921, 1919.
- JOBELLE HOLCOMBE, B. A. (University of Arkansas), M. A. (Cornell University). *Assistant Professor of English*, 1918, 1907.
- *HENRY GUSTAVE HOTZ, Ph. B., M. A. (University of Wisconsin), Ph. D. (Columbia University). *Professor of Secondary Education*, 1919. (On leave, January 1, 1924, to June, 1925.)
- ALLAN SPARROW HUMPHREYS, B. S. (Drury College), M. S. (University of Pennsylvania). *Assistant Professor of Chemistry*, 1921, 1918.
- DWIGHT ISLEY, B. A. (Fairmount College), M. A. (University of Kansas). *Associate Professor of Entomology*, 1921.
- ALBERT WOODWARD JAMISON, B. S., M. S. (Princeton University). *Associate Professor of Economics and Sociology*, 1922.
- JAMES RALPH JEWELL, B. A., M. A. (Coe College), Ph. D. (Clark University). *Professor of Education*, 1913.
- VIRGIL LAURENS JONES, B. A. (University of North Carolina), Ph. D. (Harvard University). *Professor of English*, 1915, 1911.
- JOHN CLARK JORDAN, B. A. (Knox College), M. A., Ph. D. (Columbia University). *Professor of English and Public Speaking*, 1918.
- JAMES KESSLER, B. A. (Indiana University), M. A. (University of Illinois). *Associate Professor of Romance Languages*, 1921.
- BRADFORD KNAPP, B. S. (Vanderbilt University), LL. B. (University of Michigan), D. Agr. (Maryland Agricultural College). *Professor of Agricultural Economics*, 1920. (Term ended October 1, 1923.)
- ALFRED EDWIN LUSSKY, Diploma (Concordia College), Diploma (Concordia Theological Seminary), M. A. (University of Illinois), Ph. D. (University of Michigan). *Professor of German*, 1921, 1915.
- WALTER BASIL MAHAN, A. B. (Centre College), Ph. D. (University of Chicago). *Assistant Professor of Psychology and Philosophy*, 1923.
- ANTONIO MARINONI, B. A. (Desenzano, Italy), M. A. (Yale University). *Professor of Romance Languages*, 1906, 1905.
- EDGAR MARTIN, B. S. in Agr. (Kansas State Agricultural College). *Assistant Professor of Animal Husbandry*, 1923.
- †RALPH HEDGES MASON, B. S. A. (University of Missouri). *Assistant Professor of Animal Husbandry*, 1918.
- ERNEST BERTRAM MATTHEW, B. A. (Kansas State Normal School), M. S. (University of Wisconsin). *Professor of Agricultural Education*, 1919, 1918.

- CHALMER KIRK McCLELLAND, B. S. A. (Ohio State University), M. S. A. (Cornell University). *Assistant Professor of Agronomy*, 1921.
- ALBERT DUEY McNAIR. *Professor of Farm Management*, 1920.
- DEWITT TALMADGE MULLETT, A. B. (Indiana University), First Lieutenant, U. S. Army. *Assistant Professor in Military Art*, 1923.
- †MARTIN NELSON, B. S. A., M. S. (University of Wisconsin). *Professor of Agronomy*, 1918, 1908.
- †LYNN WESLEY OSBORN, B. S. A. (Iowa State College). *Assistant Professor of Agronomy*, 1916, 1913.
- STELLA PALMER, B. S. (University of Alabama), M. A. (Columbia University). *Professor of Home Economics and of Home Economics Education*, 1918.
- SAMUEL REYNOLDS PARSONS, B. S. (Massachusetts Agricultural College), M. S. (Pennsylvania State College), Ph. D. (University of Michigan). *Assistant Professor of Physics*. 1923.
- LOUIS ALPHONSE PASSARELLI, B. A. (Columbia University), M. A. (University of Toronto). *Assistant Professor of Romance Languages*, 1921.
- CARRIE PLUNKETT, B. S. (Iowa State College). *Assistant Professor of Home Economics*, 1923, 1922.
- †CHARLES WORKMAN RAPP, B. S., M. S. (Oklahoma A. and M. College). *Assistant Professor of Horticulture*, 1920.
- †JOHN WILLIAM READ, B. S. A., M. S. (University of Missouri). *Professor of Agricultural Chemistry*, 1918.
- CHARLES MYRON REINOEHL, B. A., M. A. (University of Indiana), Ph. D. (University of Chicago). *Professor of School Administration*, 1921.
- BRUCE DODSON REYNOLDS, B. Sc. (University of Virginia), D. Sc. (Johns Hopkins University). *Assistant Professor of Zoology*, 1923.
- GILES EMMETT RIPLEY, B. A., M. S. (Purdue University). *Professor of Physics*, 1908.
- †HARRY ROBERT ROSEN, B. S. (Pennsylvania State College), M. S. (University of Wisconsin), Ph. D. (Washington University). *Associate Professor of Plant Pathology*, 1918.
- †WARD HANSON SACHS, B. S. (Illinois Wesleyan College), M. S. (University of Missouri). *Associate Professor of Agronomy*, 1919.
- HERMAN AUSTIN SANDHOUSE, B. S. (Colorado Agricultural College), M. S. (Iowa State College). *Assistant Professor of Animal Husbandry*, 1922, 1915.
- SAMUEL JAMES SCHILLING, B. S. (University of Wisconsin), D. V. M. (Ohio State University). *Associate Professor of Veterinary Science*, 1922.
- FRANCIS ALBERT SCHMIDT, LL. B. (University of Nebraska). *Professor of Physical Education for Men*, 1922.

- IRENE SHALEY, B. S., M. A. (Columbia University). *Assistant Professor of Physical Education for Women*, 1922.
- MURRAY SHEEHAN, B. A. (Miami University), M. A. (Harvard University). *Associate Professor of Journalism*, 1920.
- MERLE FRANKLIN SHOWALTER, A. B. (Indiana University), M. S. (Purdue University). *Assistant Professor of Education*, 1923.
- WILLIAM ALEXANDER SMITH, Major U. S. Army. *Professor of Military Science and Tactics*, 1923.
- WARREN RUSSELL SPENCER, B. A. (University of Indiana), B. S. C. E. (Rose Polytechnic Institute). *Associate Professor of Civil Engineering*, 1921, 1919.
- WILLIAM BOYD STELZNER, B. E. E., E. E. (University of Arkansas), M. S. (Ohio State University). *Professor of Electrical Engineering*, 1919, 1909.
- †GEORGE PATRICK STOCKER, B. S. in C. E. (University of Wisconsin). *Professor of Civil Engineering*, 1919.
- †SAMUEL RODMAN STOUT, B. S. A. (University of Arkansas). *Assistant Professor of Animal Husbandry*, 1919, 1916.
- HENRY HARRISON STRAUSS, B. A. (Wooster College), M. A. (Tulane University). *Professor of Ancient Languages*, 1914, 1913.
- †BARNETT SURE, B. S., M. S., Ph. D. (University of Wisconsin). *Associate Professor of Agricultural Chemistry*, 1921, 1920.
- VARD LAREN TANNER, B. A., M. A., (University of Utah), Ph. D. (University of Chicago). *Professor of Psychology*, 1923.
- DAVID YANCEY THOMAS, B. A. (Emory College), M. A. (Vanderbilt University), Ph. D. (Columbia University). *Professor of History and Political Science*, 1912, 1907.
- HENRY DOUGHTY TOVEY, B. Mus., Mus. D. (Knox College). *Professor of Music*, 1908.
- †JACOB OSBORN WARE, B. S. A., M. S. (North Carolina State College). *Assistant Professor of Agronomy*, 1920.
- JULIAN SEESL WATERMAN, B. A. (Tulane University), M. A. (University of Michigan), J. D. (University of Chicago). *Associate Professor of Economics and Sociology*, 1921, 1914.
- JOSEPH JOHN WEBER, B. A., M. A. (University of North Dakota), Ph. D. (Columbia University). *Professor of Secondary Education*. (Appointed January 1, 1924.)
- EDGAR WERTHEIM, B. S. (Northwestern University), B. P. E. (Y. M. C. A. College, Chicago), M. S. (University of Kansas), Ph. D. (University of Chicago). *Associate Professor of Chemistry*, 1921.
- †BIRTON NEILL WILSON, B. S. M. E. (Georgia School of Technology), M. E. (University of Michigan), M. M. E. (Cornell University). *Professor of Experimental Engineering and Drawing*, 1917, 1896.
- †LEROY ALONZO WILSON, M. B., M. M. E. (Cornell University). *Professor of Mechanical Engineering*, 1923.

VIVE HALL YOUNG, Ph. B., Ph. M., Ph. D. (University of Wisconsin). *Professor of Plant Pathology*, 1923.

INSTRUCTORS AND ASSISTANTS

†RUSSELL HAYDEN AUSTIN, B. S. A. (University of Arkansas). *Instructor in Agronomy*, 1918.

HAROLD THOMAS BARR, B. S. in A. E. (University of Missouri). *Instructor in Agricultural Engineering*, 1923.

LOY BARTON, B. E. E. (University of Arkansas). *Instructor in Vocational Subjects*, 1921.

*LEORA BLAIR, B. A. (University of Arkansas). *Instructor in Education*, 1920.

CHARLES VICTOR BULLEN, B. S. in E. E. (University of Texas). *Instructor in Electrical Engineering*, 1923.

MAUDE ETHEL BUNKER, Ph. B. (University of Wisconsin). *Instructor in Education*, 1920.

WILLIAM JOHNSON CRIBBS, B. S. (Grove City College), M. S. (University of Chicago). *Instructor in Botany*, 1923.

WILLIE VANDEVENTER CROCKETT. *Instructor in Expression*, 1905.

CHARLES BURTON CROFUTT, B. A. (Cornell College), M. S., Ph. D. (University of Iowa). *Instructor in Physics*, 1923.

CAREY GARDINER CRONEIS, B. S. (Denison University), M. S. (University of Kansas). *Instructor in Geology*, 1923.

MARY ANN DAVIS. *Instructor in English*, 1915.

JAMES DINWIDDIE. *Instructor in Mechanic Arts*, 1916.

ELIZABETH JACKSON GALBRAITH, B. A. (West Tennessee Christian College). *Instructor in Art*, 1906.

MILDRED GILLESPIE. *Assistant in Organ*, 1922.

JACK MURRAY GREATHOUSE, Sergeant, U. S. Army. *Assistant in Military Art*, 1919.

IVAN HAMPTON GROVE, B. A. (Henry Kendall College). *Instructor in Physical Education for Men*, 1922.

MARY BURNLEY GWATHMEY, B. A. (University of Richmond), Diploma (New York School of Fine and Applied Art). *Instructor in Art*, 1922.

FRANK RUSSELL HAMBLIN, B. A., M. A. (Bucknell College), Ph. D. (University of Chicago). *Instructor in Ancient Languages*, 1922.

DAVID CLINTON HANSARD. *Instructor in Violin*, 1923, 1916.

JOHN COYNE HARDGRAVE. *Instructor in Mechanic Arts*, 1923.

MARY RUDOLPH HASTINGS, B. A. (Ouachita College), B. A. (Columbia University). *Instructor in English*, 1923.

HUBERT BYNUM HINDS, B. S. A. (University of Arkansas). *Instructor in Vocational Agriculture*, 1923.

*JEWEL CONSTANCE HUGHES, B. A. (University of Arkansas), M. A. (University of Missouri). *Instructor in Mathematics*, 1918.

DOUGLAS LUCAS HUNT, Ph. B., M. A. (University of Chicago). *Instructor in English*, 1923.

- MADGE ELMA JOHNSON, B. S. H. E. (University of Arkansas), M. A. (Columbia University). *Instructor in Home Economics*, 1923.
- LYNA BEERS MANSFIELD, Diploma (New Haven Normal School of Gymnastics), B. A. (Brenau College). *Instructor in Physical Education for Women*, 1923.
- GRANT MCCOLLEY, B. A. (Lake Forest University), M. A. (Northwestern University). *Instructor in English*, 1923.
- HOWARD WALDO MCKINLEY, B. S. (Colorado Agricultural College). *Instructor in Vocational Subjects*, 1921.
- OWEN MITCHELL. *Instructor in Music*, 1923, 1913.
- WILLIM HERBERT MOORE, B. S. in Comm. (University of Iowa). *Instructor in Economics and Sociology*, 1923.
- JAMES CURRIE MORISON, B. S. (University of Michigan). *Instructor in Heat Power Engineering*, 1922.
- BENJAMIN FRANKLIN KELSO MULLINS, B. A., M. S. (Emory University). *Instructor in Civil Engineering*, 1923.
- AGNES NELSON, Ph. B. (University of Chicago). *Instructor in Home Economics*, 1921.
- LYMAN EDWARDS PORTER, B. A., M. A., Ph. D. (Yale University). *Instructor in Chemistry*, 1921.
- DOROTHY MAY REQUA, Diploma (New York School of Fine and Applied Art). *Instructor in Art*, 1922.
- ORAN WILBUR ROWLAND, B. S. (Michigan Agricultural College). *Instructor in Horticulture*, 1923.
- CLIFFORD ROYER, A. B. (Kansas University). *Instructor in Vocal Music*, 1923.
- EDGAR GREER SHELTON, B. S. in Arch. (University of Texas). *Instructor in Drawing and Architecture*, 1923.
- LEVI CLARK STARBIRD, B. E. E. (University of Arkansas). *Instructor in Vocational Subjects*, 1921.
- IRVING CHELLIS STORY, B. S. (New Hampshire College), M. A. (Cornell University). *Instructor in English*, 1922.
- FRANCIS E. TAYLOR, B. S. (Illinois College), M. A. (University of Illinois). *Instructor in Mathematics*, 1923.
- WARD HASTINGS TAYLOR, B. A., M. A. (University of Illinois). *Instructor in Mathematics*, 1920.
- ANDREW JACKSON THOMPSON. *Instructor in Mechanic Arts*, 1921.
- WILLARD CORWIN WILBANKS, B. S. A. (Clemson Agricultural College). *Instructor in Dairying*, 1921.
- ELIZABETH PURNELL WILSON. *Instructor in Education*, 1919.
- EMMA LOUISE ZEISLER, B. A. (Milwaukee-Downer College), M. A. (University of Wisconsin). *Instructor in Education*, 1923.

STANDING COMMITTEES OF THE
UNIVERSITY SENATE, 1922-23

Note.—The name of the chairman stands first.

Accredited Schools—Professors Cade, Dvorachek, Jordan, Palmer, Spencer, the Registrar.

Advisers—Deans Droke, Gladson, Jewell, Nelson.

Athletics—Professors B. N. Wilson, Marinoni, Schmidt, Stout, President Futrall.

Catalog—Professors Sheehan, Sachs, Stocker, Tanner, the Registrar.

Commencement—Professors Ripley, Holcombe, Kessler, Tanner, Tovey.

Discipline and Attendance—Professors Gladson, Dvorachek, Reinoehl, Stocker, Thomas.

Graduate Study—Professors Jewell, Baerg, Buchholz, Jordan, Lussky, Miller, Strauss.

Honorary and Higher Degrees—Professors Droke, Dellinger, Nelson, Read, Reinoehl.

Intercollegiate Debating—Professors Jordan, Jamison, Jones, Thomas, Waterman.

Library—Professors Thomas, Jewell, McNair, Stelzner, the Librarian.

Research—Professors Hale, Buchholz, Isley, Miller, Reynolds, Thomas, Waterman, Young.

Schedule—Professors Wilson, Carter, Gronert, Reinoehl, the Registrar.

Statistics—Professors Cady, Bleecker, Campbell, Dellinger, L. A. Wilson.

Student Affairs—Professors Gladson, Hale, Holcombe, Jones, the Dean of Women.

Student Organizations—Professors Stelzner, Cooper, Fritts, Hastings, the Registrar.

Student Publications—Professors Ripley, Hastings, Sheehan, Smith, Stocker, Mr. Bell.

GENERAL INFORMATION

DIVISIONS

The University of Arkansas is composed of the following divisions: the College of Arts and Sciences, the College of Education, the College of Engineering, the College of Agriculture, the Agricultural Experiment Station, and the General Extension Division, at Fayetteville; the School of Medicine and the Agricultural Extension Division at Little Rock; and the Agricultural, Mechanical, and Normal School, at Pine Bluff.

LOCATION

Fayetteville* is located in Washington County, in the north-western part of the state, in the heart of the Ozark Mountains, at an elevation of about 1,500 feet. The surroundings are of great natural beauty, and the excellent climate of the region in all seasons is known throughout the Southwest.

Fayetteville may be reached from both the north and the south by the Texas branch of the St. Louis & San Francisco ("Frisco") Railroad. The Muskogee division communicates with the west.

The moral and religious conditions of the community are most favorable, as is shown by the choice of Fayetteville as site for the Western Methodist Assembly, on Mount Sequoyah, on the eastern border of the town. With all of Missouri, Arkansas, Oklahoma, Texas, and Louisiana to choose from, Fayetteville was the spot selected.

There are twelve churches in the town, representing eleven denominations. The pastors of these churches actively interest themselves in the moral and spiritual welfare of the students.

HISTORY

The University of Arkansas owes its origin to a public land grant Act of the Federal Congress, which was accepted by the General Assembly of the state March 27, 1871, in an Act which provided for the location, organization, and maintenance of the institution. Fayetteville was selected as the seat, and the University was opened January 22, 1872. It has been in continuous operation since that time.

The growth of the University has been steady from its beginning, and the institution is now developing rapidly in attendance, in standards of scholarship, and in breadth of influence. Every section of the state is represented by students on the campus, and the University is also attracting a growing number of young people from other states. Young women have been admitted to its courses from the first day of its existence.

The institution, as originally organized, was not divided according to the present designations. Thus, although courses in

*Note.—The departments of the University which are located at Little Rock and Pine Bluff are dealt with in later pages.

engineering were offered almost from the opening of the University, and degrees were conferred, it was not until 1893 that the College of Engineering was organized as such. Similarly, the College of Agriculture was not established under its present name until 1905, nor the College of Education until 1916, despite the fact that instruction in these fields had been given from the very first years of the institution. The Experiment Station was established in 1887, under an Act of Congress known as the Hatch Act. The present General Extension division and Agricultural Extension division were announced in the 1918 catalog of the University for the first time, but extension work has been offered since 1910. The Engineering Experiment Station was established in 1920.

INCOME AND RESOURCES

The income of the departments of the University at Fayetteville for the fiscal year 1922-23 was as follows:

Federal Government—

Morrill and Nelson Funds.....	\$ 36,363.00
Smith-Hughes Funds.....	4,084.04
State Appropriation.....	408,755.00
Student Fees.....	36,375.00
Interest on Endowment.....	6,903.00
General Education Board.....	3,500.00
Vocational	28,924.00
Miscellaneous	7,045.00
Total.....	\$531,949.04

The Agricultural Experiment Station receives from the Federal Government (Hatch and Adams Funds) \$30,000.00 a year, and from sale of farm products about \$11,000.00 a year.

The equipment, buildings and grounds at Fayetteville are estimated to be worth about \$1,000,000.00.

BUILDINGS AND EQUIPMENT

The campus at Fayetteville comprises a tract of wooded land of about one hundred twenty acres on a hill overlooking the town, and includes some twenty buildings. The University has its own heating plant, and is supplied with electric light and water from the city plants.

DORMITORIES

Three dormitories are provided for the housing of men students. *Buchanan Hall*, a three-story brick structure, contains about forty student rooms. *Hill Hall*, likewise a three-story brick building, contains about twenty rooms for students, besides a recreation hall and a dining hall. *Gray Hall*, two stories in height and built of brick, accommodates about forty students.

All rooms are provided with beds, mattresses, a table and two chairs; all other furnishings are supplied by the occupants.

Carnall Hall, the dormitory for young women, is an attractive three-story brick structure and contains rooms sufficient for about one hundred students, with parlors, a dining hall, and a recreation room. Furnishings are similar to those in the men's dormitories.

UNIVERSITY HALL

This structure, erected in 1872, is the old "main building." It is five stories in height and forms three sides of a quadrangle. Its seventy rooms include the offices of administration and some of the class-rooms and laboratories of the College of Arts and Sciences.

The *Main Library* of the University is found in this building, as are also the libraries of the departments of Geology, Botany, Zoology, and Mathematics. Other departmental libraries are housed in the Chemistry, Engineering, Agriculture Library, and Physics buildings.

The University libraries altogether contains nearly 48,000 books, as follows:

General	364
Scientific and Technical.....	6,980
Literature and Language.....	7,012
History and Social Sciences.....	7,989
Philosophy and Religion.....	1,190
Government and State Documents.....	20,500
Bound Periodicals.....	3,818

Chapel. The University Chapel, seating 667, is on the ground floor.

Religious Organizations. Both the Y. M. C. A. and the Y. W. C. A. have attractive rest-rooms in this building, comfortably furnished and serving as the headquarters of their respective secretaries.

The Biological and Geological Laboratories. The laboratories for Botany, Zoology, and Geology are supplied with equipment fully adequate for the courses offered.

The *Museum* contains various collections (mineral, petrographic, paleontological, botanical, zoological, relief maps) made with the view to facilitating instruction in biology and geology.

The *Art Studio* is equipped for work in design, drawing, and painting.

The *Practice Rooms* of the Department of Music are located in University Hall.

The *Women's Gymnasium* is equipped with modern apparatus, and provided with lockers, dressing-rooms, and shower-baths.

Military. The Military Department, with the usual equipment, including band instruments, occupies several rooms in the basement.

The *Book Store* contains a complete line of text-books and supplies.

CHEMISTRY BUILDING

This building contains laboratories for quantitative and qualitative analysis, for organic and physical chemistry, for assaying, besides balance-room, a library, a large lecture-room, and a general laboratory for beginning students.

AGRICULTURAL BUILDING

This building contains the main administration offices of the College of Agriculture, the offices of the Dean and Director and of the department of Agronomy and Soils. Here are located the cotton laboratory, where instruction in cotton grading is given and where the laboratory work in cotton is conducted, class rooms and the laboratories for field crops and for soils, and the laboratory of biochemical study of nutrition conducted by the department of Agricultural chemistry.

DAIRY BUILDING

This is a stone building containing the offices of the department of Animal Husbandry and Dairying, the class rooms of that department, a dairy laboratory, and the college creamery which manufactures about 5,000 pounds of butter each week and serves as a means of instruction in creamery work.

AGRICULTURAL LIBRARY BUILDING

This is a small brick building consisting of a stack room and a reading room, and contains about 3,000 bound volumes and 5,000 unbound bulletins and pamphlets. Files of twenty-five scientific periodicals are kept.

AGRICULTURAL LABORATORIES

The departments of Agricultural Chemistry, Bacteriology, and Veterinary Science are housed in a one-story brick building. The laboratories are well equipped for instruction of students and for station work along these particular lines of investigation.

GRAY HALL

About two-thirds of Gray Hall are now used as offices, class rooms and laboratories. The department of Agricultural Economics, Agricultural Engineering, Entomology, Horticulture, Plant Pathology, and Agricultural Education are located in this building.

LIVE STOCK

At the barns west of the campus and at the Experiment Station Farm the College of Agriculture and Experiment Station has a large amount of live stock for instructional and experi-

mental purposes. This consists of about one hundred head of cattle, including Jerseys, Holsteins, Ayrshires, of the dairy breed; Shorthorns, Herefords, and Angus, of the beef breeds. Many of these are prize winners and among them are some of the best cattle in the State of Arkansas. Three breeds of hogs are also kept for the work of the institution, consisting of Poland Chinas, Durocs, and Tamworths, and numbering from seventy-five to one hundred fifty head according to the season. Poultry to the number of eight hundred to one thousand birds are carried in the breeding and other experimental work of the College.

FARM LANDS AND ORCHARDS

The college of Agriculture and Experiment Station has approximately five hundred twenty-five acres of land in the new Experimental Farm and the lands adjacent to the University Campus. These are used in general farming and in the active work of the State Experiment Station. Agronomy has about one hundred twenty acres in experimental work in soils and crops. The department of Horticulture farms about sixty-five acres, consisting of a fine new apple orchard, a mature apple orchard covering forty acres in all, also a vineyard, and room for vegetable work. The department of Animal Husbandry has the barns, pastures, and crops for the live stock. These facilities are used in work of instruction as well as experimentation.

PEABODY HALL

Peabody Hall is used by the College of Education. It is a modern, fireproof building, containing about thirty rooms for class work, various offices, a large assembly room, a manual training shop, home economics, laboratories, and rooms in which the college classes in Education and Psychology meet.

The *University High School* and the primary grades for practice teaching are also conducted in this building.

The *Home Economics Laboratories* occupy practically all of one floor, with rooms for cookery, sewing, millinery, and table service, and the reception room. The equipment in each laboratory is new and modern.

ENGINEERING HALL

This building contains the offices, recitation rooms, drawing rooms, and testing laboratories of the civil, electrical, and mechanical engineering departments.

In the *Civil Engineering Testing Laboratory*, the road materials testing equipment is complete for making all the standard tests as recommended by the U. S. Office of Public Roads. The cement and concrete testing equipment is sufficient for making all the standard tests in cement and on small specimens of concrete. The structural materials testing department is equipped for making tension, compression, and impact tests on small spec-

imens of practically all structural materials. The hydraulic laboratory equipment, although rather limited, is sufficient to give practical demonstration in connection with elementary hydraulics.

The *Civil Engineering Instrumental Laboratory* is provided with all the necessary instruments for work in land, railroad, and city surveying, practical astronomy, and office work. The equipment of field instruments has been so selected as to afford students the opportunity of becoming familiar with the instruments of the different manufacturers.

The *Electrical Engineering Laboratories* offer excellent facilities for experimental work. The main laboratory is supplied with a variety of types and sizes of direct current and alternating current generators, motors, control equipment and instruments; storage batteries, converters and rectifiers, synchronous converters, transformers, condensers, inductances, etc. Adequate switchboards and wiring are provided for convenience in testing. A well equipped instrument and repair shop is maintained in connection with the laboratory.

The *Standardizing Laboratory* is equipped with standards and precision instruments and is wired and arranged for facility in standardizing work.

The *Photometric Laboratory* has a standard photometer bar and accessories, several types of portable photometers, and lighting units and equipment.

The *Telephone Laboratory* has magneto and central energy switchboards complete, test lines, and numerous telephone and wireless instruments.

The *Experimental Engineering Laboratory* is equipped with steam and gasoline engines, condenser, boiler feed pumps, and other power plant equipment for conducting standard tests. In addition to the power plant equipment, the laboratory is provided with apparatus for fuel testing, oil testing, flue gas analysis, and for testing materials of construction.

MECHANICAL HALL

Mechanical Hall contains the machine shop, wood shop, and forge shop. The shops will accommodate about seventy-five students at one time. Adjoining on the east is a boiler room.

PHYSICS BUILDING

The *Physics Building* is a two-story frame building containing ten rooms for lecture and laboratory work in physics. On the first floor are two laboratory rooms, a large lecture room, a store-room, and an office room. The second floor includes a large lecture room, a laboratory room, a photometric room, a work-shop room, and a library. Concrete piers are provided for all delicate work in the laboratories and for the delicate balances. The equipment of apparatus is fairly complete and of sufficient variety and duplication to permit the instruction of large sections in the laboratories.

UNIVERSITY CLUB

This building stands between the Agricultural Building and the Chemistry Building. It contains, besides the assembly rooms of the faculty organization, a modern cafeteria restaurant for faculty, students, and others, located on the ground floor.

LITTLE THEATER

The Public Speaking department of the College of Arts and Sciences has an attractive small building, furnished with stage, scenery, seats, special lighting, etc.

INFIRMARY

The infirmary is in charge of the University physician and a trained nurse. The building is furnished with open and private wards for men and women, and a well isolated ward for contagious cases.

BASKET-BALL COURT

The new indoor basket-ball court, built this year, partly with private funds, is a frame structure fifty by one hundred feet in size, with seats for 1,000 spectators around the court. In the basement are commodious dressing-rooms with baths and lockers.

ATHLETIC FIELD

Grounds for athletic sports contain the football gridiron, the baseball diamond, the quarter-mile track, and facilities for outdoor basket-ball, volley ball, and other games. Tennis courts are located in various places on the campus.

ADMISSION

Students may be admitted to the University in two ways:

- a. By presenting fifteen units in acceptable subjects from accredited secondary schools;
- b. By passing an examination given by the University in fifteen units in acceptable subjects.

ADMISSION BY EXAMINATION

General Examinations. Entrance examinations are offered at the University during the opening week of school. Students living at a distance from the University may secure special examinations to be conducted by the school principal or the county superintendent under conditions that will be indicated when the application is made. Requests for examinations must be mailed so as to reach the University Examiner not later than September 1.

Intelligence Test. Persons twenty-three years of age, or over.

who do not possess a satisfactory secondary school record may secure admission to the University and pursue courses leading to a degree by passing a general intelligence test designed to determine the applicant's mental powers and alertness. Students admitted to the University by an intelligence test may be granted a degree from this University, provided that each year they maintain an average scholastic record of at least two and a half grade points.

ADMISSION BY CERTIFICATE

Class "A" Schools—All graduates of class A high schools and preparatory schools of this state are admitted to the freshman class of the University. This privilege will also be granted to all graduates of schools accredited by the Association of Colleges and Secondary Schools of the Southern States, or by the North Central Association of Colleges and Secondary Schools.

Class "B" Schools—Graduates of these schools who present fifteen units of work approved by the University are admitted to the freshman class. Students coming from high schools or preparatory schools located in another state not accredited by the Association of Colleges and Secondary Schools of the Southern States, nor by the North Central Association of Colleges and Secondary Schools, but accredited by the state University of that state, may enter the University upon the same terms. For subjects accepted for admission see later pages.

All candidates are expected to meet the specific requirements of the college or curriculum they desire to enter. Any student unable to meet the entrance requirement of a particular college or curriculum, or any student whose entrance credit in acceptable subjects was reduced to satisfy University regulations, will be allowed to make up not more than one deficiency by examination, or by courses pursued in summer school, or by courses pursued in the regular session intended primarily for freshmen. If University courses are offered to remove such deficiencies, nine term hours of college work shall be equivalent to one entrance unit.

Any student who has completed fifteen or more units in acceptable courses in the high school, but who has attended high school less than four full years, shall be conditioned in one entrance unit. This condition may be removed by making a passing grade in twelve hours of work during the first term of the freshman year; otherwise the student must make up this condition in the manner described above.

Students who have been previously admitted to another college or university of equal standing will be allowed to enter without conditions upon presenting a certificate of honorable discharge, and an official statement of the work accepted for entrance by the institution last attended, provided it appears

that such work is substantially equivalent to the work required for entrance to the University of Arkansas.

An official statement of the student's record, containing specific information as to the kind and extent of work done, should be mailed to the Registrar of the University as early in the summer as possible and in no case later than September 1. Blank forms for this purpose will be furnished upon request. Diplomas of graduation will not be accepted in lieu of certificates.

ENTRANCE REQUIREMENTS

COLLEGE OF ARTS AND SCIENCES

The following units are prescribed for the course leading to the degree of *Bachelor of Arts*:

English, three units.

Algebra, one unit.

Geometry, one unit.

History, one unit.

Enough additional units to bring the total to fifteen.

The following units are prescribed for the course leading to the degree of *Bachelor of Science*:

English, three units.

Algebra, one unit.

Geometry, one unit.

History, one unit.

Natural science, one unit.

Enough additional units to bring the total to fifteen.

The following units are prescribed for the course leading to the degree of *Bachelor of Music*, and for the special courses in music:

English, three units

History, one unit.

Enough additional units to bring the total to fifteen. A maximum of three units in music may be used as part of the elective work.

COLLEGE OF EDUCATION

The following units are prescribed for all courses leading to the degree of *Bachelor of Science in Education*:

English, three units.

Social Science, one unit.

Science and Mathematics group, two units.

Enough additional units to bring the total to fifteen.

A maximum of four units towards entrance will be allowed in vocational subjects. Students preparing to teach agriculture, home economics, and commercial subjects may, however, be permitted to offer seven and one-half units in vocational subjects.

COLLEGE OF ENGINEERING

The following units are prescribed for all four-year courses*:

English, three units.

Algebra, one and one-half units.

Geometry, one unit.

History, one unit.

Enough additional units to bring the total to fifteen.

COLLEGE OF AGRICULTURE

The following units are prescribed for entrance to the four-year courses in agriculture:

English, three units.

Algebra and Geometry, two units (at least $\frac{1}{2}$ unit in Geometry).

Enough additional units to bring the total to fifteen.

A maximum of $7\frac{1}{2}$ units toward entrance will be allowed for vocational and business subjects to students from the district agricultural schools and accredited Smith-Hughes high schools.

A maximum of 4 units toward entrance will be allowed for vocational and business subjects to students from other accredited high schools.

Home Economics

The following units are prescribed for the four-year course in home economics:

English, three units.

Algebra, one unit.

History, one unit.

Enough additional units to bring the total to fifteen.

Students from district agricultural schools, from accredited Smith-Hughes high schools, and other high schools offering courses in home economics approved by the State Supervisor, may offer $7\frac{1}{2}$ units in vocational and business subjects, $3\frac{1}{2}$ of which may be in business or vocational subjects other than home economics.

In accredited schools other than those mentioned above, four units may be offered in vocational (including home economics) and business subjects.

Advanced Standing Allowed Students From District Agricultural Schools

Students entering from the District Agricultural Schools may obtain advanced standing by taking examinations in courses in agriculture or home economics offered in the freshman and sophomore years in the College of Agriculture, in so far as

*For a statement of the entrance requirements to the engineering trade courses, see later page.

the student's work in the District Agricultural School has not already been applied as entrance credits.

Accredited Smith-Hughes High Schools

To be eligible for classification as an accredited Smith-Hughes High School, such school must be approved by the State Supervisor, and the agriculture or home economics taught must be approved by the faculty of the College of Agriculture of the University of Arkansas.

SUBJECTS ACCEPTED FOR ADMISSION

The following statements indicate in a general way the preparation which is expected in the various subjects accepted for admission. The numbers in parentheses following each subject indicate the minimum and maximum number of units which may be offered in that subject. The term unit is understood to represent a high school or preparatory course continued through a school year of thirty-six weeks with five recitations of forty-five minutes each a week. In all laboratory work a double period of ninety minutes will be equivalent to a single recitation period of forty-five minutes.

ENGLISH (3-4)

In order to secure a definite plan of study and unity of method on the part of the preparatory schools, the entrance requirement in English is outlined below somewhat in detail, following the recommendations of the National Conference on Uniform Entrance Requirements in English.

The study of English in school has two main objects; (1) command of correct and clear English, written and spoken; (2) ability to read with accuracy, intelligence, and appreciation.

Grammar and Composition—The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered, and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature—The second object is sought by means of two lists of books, headed respectively, *Reading* and *Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud, and be encouraged to commit to memory some of the more notable passages in both verse and prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

The College Entrance Examination Board has prepared two lists of books, a "Restricted" list and a "Comprehensive" list. The choice of books for reading and study in the Comprehensive list is rather wide. Copies of

this list may be secured from the publishing houses, or from the College Entrance Examination Board, 431 West 117th Street, New York City. It should be noted that, though the "Comprehensive" list contains a number of books by living writers, it does not include contemporary novels of no permanent value. Such novels will not be accepted as part of the entrance requirement. The "Restricted" list is printed below, with semicolons used to set off the units. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

List of Books, 1924-1925

A. Reading

From each group two selections are to be made, except that for any book in Group V a book from any other group may be substituted.

Group I. *Prose Fiction*.—Dickens, *A Tale of Two Cities*; George Eliot, *Silas Marner*; Scott, *Quentin Durward*; Stevenson, *Treasure Island or Kidnapped*; Hawthorne, *The House of Seven Gables*.

Group II. *Drama*.—Shakespeare, *Merchant of Venice*; *Julius Caesar*; *King Henry V*; *As You Like It*.

Group III. *Poetry*.—Scott *The Lady of the Lake*; Coleridge, *The Ancient Mariner*; Arnold, *Sohrab and Rustum*; a collection of representative verse, narrative and lyric; Tennyson, *Idylls of the King* (any four); the *Aeneid* or the *Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books I-V, XV, and XVI of the *Odyssey*.

Group IV. *Essays, Biography, etc.*—*The Old Testament* (the chief narrative episodes in *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the books of *Ruth* and *Esther*); Irving, *The Sketch Book* (about 175 pages); Addison and Steele, *The Sir Roger de Coverley Papers*; Macaulay, *Lord Clive*; Parkman, *The Oregon Trail*; Franklin, *Autobiography*.

Group V. *Contemporary Literature*.—A modern novel; a collection of short stories (about 150 pages); a collection of contemporary verse (about 150 pages); a collection of prose writing on matters of current interest (about 150 pages); two modern plays.

All selections from this group should be works of recognized excellence.

B. Study

One selection is to be made from each group.

Group I. *Drama*.—Shakespeare, *Macbeth*; *Hamlet*.

Group II. *Poetry*.—Milton, *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas*; Browning, *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, "De Gustibus," *Instans Tyrannus*, *One Word More*.

Group III. *Essays*.—Macaulay, *Life of Johnson*; Carlyle, *Essay on Burns*, with a brief selection from *Burns's Poems*; Arnold, *Wordsworth*, with a brief selection from *Wordsworth's Poems*.

Group IV. *Oratory*.—Burke, *Speech on Conciliation with America*; a collection of orations, to include at least Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

Note.—The reading list adopted by the Arkansas State Board of Education may be substituted for either of the preceding lists, subject to the approval of the University in each case.

MATHEMATICS

Elementary Algebra. (1).—Positive and negative numbers; addition, subtraction, multiplication, division; factoring, highest common divisor and lowest common multiple by factoring; fractions; equations of the first

degree, in one, two or three unknowns, with numerous problems involving such equations; involution (omitting the binomial theorem); evolution (omitting cube root); graphical representations and graphical methods in the solution of equations of all types; pure quadratic equations; affected quadratic equations by the method of completing the square and by factoring with problems involving such equations.

Higher Algebra. ($\frac{1}{2}$ -1).—A review of elementary algebra with more difficult problems and with some demonstrational work; theory of quadratics, simultaneous quadratics, ratio and proportion, variation, progressions arithmetical, geometrical, and harmonical, binomial theorems, and logarithms. One unit will be allowed for this work provided that the course is pursued during the fourth year of the high school or after the pupil has done a year of work in plane geometry; otherwise, only one-half unit will be allowed.

Plane Geometry. (1).—Any of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should be emphasized.

Solid Geometry. ($\frac{1}{2}$).—Any of the standard texts on this subject will furnish the necessary preparation. The exercises requiring solutions and demonstrations should be emphasized.

Plane Trigonometry. ($\frac{1}{2}$).—This should include a thorough study of some standard high school text. The exercises requiring solutions and demonstrations should be emphasized.

HISTORY AND SOCIAL SCIENCES

History

Ancient History. ($\frac{1}{2}$ -1).—The completion of a standard text-book, with emphasis on the history of Greece and Rome and some attention to geography, will satisfy the requirements for one unit.

Medieval and Modern History. ($\frac{1}{2}$ -1).—The completion of a standard text covering the history of Europe in medieval and modern times, some parallel reading, and a knowledge of the geography involved, will satisfy the requirements for one unit.

European History. ($\frac{1}{2}$ -1).—In place of the one unit courses in ancient history and medieval and modern history outlined above, two units of credit will be given for courses in European development.

English History. ($\frac{1}{2}$ -1).—An advanced high school text should be used. Constitutional points should receive attention, and easily accessible documents should receive careful study.

American History. ($\frac{1}{2}$ -1).—An advanced high school text should be used and the subject should be taken preferably in the senior year. Current newspapers and magazines should be assigned as collateral reading.

Social Sciences

Community Civics and Vocations. ($\frac{1}{2}$ -1).—The aim of the course should be to help the child to know his community—not merely a group of facts about it, but the meaning of his community life, what it does for him, and how it does it, what the community has a right to expect from him, and how he may fulfill his obligations. This course should include a thorough study of some standard text.

Elementary Economics. ($\frac{1}{2}$).—In the study of economics it is desirable to avoid two extremes, abstract theory on one hand, and controversial questions, such as the tariff, trusts, and trade unions, on the other hand. Emphasis should be placed on the historical and descriptive matter, especially relating to the economic development of England and the United States. Some good elementary text-book should be mastered and a reasonable amount of collateral reading required.

Elementary Sociology. ($\frac{1}{2}$).—Concrete facts and problems, particularly of the social groups with which pupils are most familiar, such as the neighborhood, the local community, the play gang of adolescents, and the family, should be stressed.

Civil Government. ($\frac{1}{2}$).—This should be a study of our government, national, state, and local, as it is organized and actually operated today. The instruction should aim to impart information essential to intelligent active citizenship, such as the division of the government into departments, their organization and functions; the methods of nominating, electing, and appointing men to office; of framing and amending constitutions, city charters, and statutes; of drawing grand and petit juries and the duty of the citizen to serve on them; the distinction between common law, state law, and constitutional law; between equity, civil, and criminal cases.

Commercial Geography. ($\frac{1}{2}$).—This describes and seeks to explain the commerce of today. The work should cover the ways in which commerce depends on nature and on man, the development of means of transportation and communication, and a detailed study of the several commercial regions of the world, with reference to resources, industries, transportation facilities, and commerce. It should be based on the text-book, supplemented by map work and assigned readings.

LANGUAGES

Latin

Latin Grammar. (1).—This should include a thorough grounding in some standard elementary Latin Grammar. Proficiency is particularly desired in the following subjects: the analysis of the verb forms, the rules of syntax, and the principal parts of the irregular verb.

Cæsar. ($\frac{1}{2}$ -1).—First four books or selections from the seven books equivalent to four. The student is expected to be familiar with the life of Cæsar and an account of his wars.

Cicero. ($\frac{1}{2}$ -1).—Any four orations from the following list: *Against Catiline*, *Poet Archias*, *Ligarius*, *Marcellus*, *Manillian Law* (to count as two orations), the fourteenth *Philippic*. The student should also be familiar with the life of Cicero.

Virgil. ($\frac{1}{2}$ -1).—Six books of the *Æneid*. The student should be familiar with the life of Virgil and an account of his times and writings. A correct rhythmical reading of the text is to be encouraged.

Greek

Greek Grammar. (1).—This should include a thorough grounding in some standard elementary Greek Grammar, with translation from Xenophon's *Anabasis*, Book I.

Xenophon's Anabasis. (1-2).—Four books, accompanied by work in grammar and composition.

German

German Grammar. (1).—The student should know the rudiments of grammar, be able to read prose at sight, and to translate simple English sentences into German.

Advanced German. (1-3).—The student should be able to read modern German prose and poetry at sight, and to translate easy English narrative into German. A considerable amount of reading from such authors as Riehl, Heyse, Freytag, Baumbach, Heine, Goethe, and Schiller will be expected.

French

French Grammar. (1).—The student should be familiar with elementary French grammar, with special attention to the irregular verbs. He should be able to read easy prose at sight and to translate simple English sentences into French.

Advanced French. (1-3).—The student should be able to read standard French prose and poetry at sight and to translate easy English narrative into French. A considerable amount of reading from such authors as Daudet, Loti, Sandeau, Dumas, Augier, Labiche and Martin, and Hugo will be expected.

Spanish

Spanish Grammar. (1).—The student should be familiar with elementary Spanish grammar and should be able to read easy prose and to translate simple English sentences into Spanish.

Advanced Spanish. (1-3).—The student should be able to read standard Spanish prose and poetry at sight and to translate easy English narrative into Spanish.

NATURAL SCIENCES

All of the courses in natural science should include at least two 80-minute periods of laboratory work each week.

General Science. ($\frac{1}{2}$ -1).—The course should consist of an elementary study of the applications of science to the affairs of everyday life. Such topics as atmosphere and the weather, house-heating and ventilation, foods, water supply, hygiene, and disease preventions are types of the topics which should make up the course. It is not intended that the course should be organized as the special science, and it should not be organized with the idea of preparing students for work in the special sciences. The justification of the course must be in terms of its own intrinsic value as a training for life. This point of view is expressed in most of the late text-books on general science.

Physiology. ($\frac{1}{2}$ -1).—This should include a thorough study of some standard high school text with note-books, drawings, individual laboratory instructions, and demonstration work.

Physical Geography. ($\frac{1}{2}$ -1).—A thorough study of any standard high school text supplemented by laboratory exercises, will satisfy the requirements.

Physics. ($\frac{1}{2}$ -1).—This should include a study of at least four of the following topics: Mechanics of solids, liquids, and gases, sound, heat, light, electricity, and magnetism, based on some standard high school text and supplemented by laboratory exercises.

Chemistry. ($\frac{1}{2}$ -1).—The full year's work should include a study of both the metals and non-metals, with laboratory experiments to illustrate the common chemical laws and the more simple chemical reactions.

Biology. ($\frac{1}{2}$ -1).—A thorough study of any standard high school text supplemented by laboratory exercises will satisfy this requirement.

Botany. ($\frac{1}{2}$ -1).—The course should follow as closely as possible the nature and work of plants during the changing seasons of the year. The major portion of the work should be with living plants, naming the common plants of the neighborhood, both cultivated and native, and studying plant parts from seed to maturity.

Zoology. ($\frac{1}{2}$ -1).—Animals should be studied as living units in their relation to one another and their environments. This study should include developmental stages as well as the adult stage. The aim of the teacher should be to foster a love for animate nature and to develop accuracy in observation and description.

PUBLIC SPEAKING

Debate. ($\frac{1}{2}$).—Credit will be allowed to members of teams in the Arkansas High School Debating League who have participated in an inter-scholastic debate.

VOCATIONAL SUBJECTS

Not more than four units will be accepted toward entrance.

Agriculture

Plant Production. ($\frac{1}{2}$ -4).—This work should include the study of farm crops, seed selection, soils and soil fertility, diseases, and insects.

Animal Production. ($\frac{1}{2}$ -4).—This includes the study of history of

breeds, feeding, breeding, judging, live stock production and marketing, and diseases.

Dairying. ($\frac{1}{2}$ -2).—Farm dairying, Babcock-testing, butter-making, and record keeping.

General Horticulture. ($\frac{1}{2}$ -2).—Plant propagation, principles of fruit growing, vegetable gardening, diseases, and insects.

Farm Mechanics, Rural Engineering. ($\frac{1}{2}$ -4).—This work should include farm shop work (both wood and forge), drawing, farm machinery, farm motors, farm drainage, and farm buildings. Work should be especially applicable to farm practice.

Farm Management, Rural Economics. ($\frac{1}{2}$ -1).—Farm accounting, project accounting, organization, and marketing.

Business Subjects

Commercial Arithmetic. ($\frac{1}{2}$).—This should include a thorough study of some standard high school text, during the third or fourth year, otherwise no credit will be allowed.

Business Law. ($\frac{1}{2}$).—Text-book supplemented by study of a few typical cases, and practice in drawing up ordinary legal papers, such as bills, notes, checks, etc.

Elementary Bookkeeping. (1).—A text-book should be employed with exercises so arranged that no two pupils will do exactly the same work, and no credit should be allowed unless the work is done neatly, accurately and at a satisfactory rate of speed. It is suggested that double periods be provided, and all work be done in class under the eye of the instructor. The set used should include the journal, cash book, sales book, ledger, check book, bank pass book, and trial balance book.

Advanced Bookkeeping and Business Practice. (1).—Thorough drill on standard business forms, such as bills, receipts, checks, and notes, also on the use and meaning of business symbols and abbreviations. The student should become acquainted with the bill and invoice book, and loose leaf and voucher systems of bookkeeping. Each student should carry on a business of his own, first as an individual, then as a partnership, and finally as a corporation. Credit on this course should mean that the student lacks only age and actual business experience to become a competent bookkeeper.

Typewriting. ($\frac{1}{2}$ -1).—The student should have a complete mastery of the keyboard by the "touch method." The minimum speed at the end of a year should be at least forty words a minute. Thorough training should also be given in care of the machine, in modern methods of manifolding, and in filing papers. One unit will be allowed for five periods of ninety minutes each week for thirty-six weeks.

Stenography. (1-2).—The student should have a thorough knowledge of the fundamental principles of the system of shorthand studied, the word-signs and contractions, and the elements of phrasing. The minimum speed at the end of the first year should be sixty-five words per minute on correspondence dictation and fifty-five words per minute on general matter. Accuracy in reading shorthand notes is essential. To receive full credit at least two of the five periods each week must be double periods of ninety minutes each.

Fine Arts

Music. ($\frac{1}{2}$ -2).—Credit will be granted in music to students from class "A" high schools and from high schools whose music instructors are licensed, and whose courses are outlined by the State Music Teachers' Association. A year's work shall count as one-half unit, that is, a maximum of two entrance units shall be granted to students taking four years' work in music in the high school.

Art and Drawing. ($\frac{1}{2}$ -2).—One unit will be allowed for five periods of ninety minutes each a week for thirty-six weeks.

Home Economics

Foods. ($\frac{1}{2}$ -3).—Should include the study of food stuffs and the principles of cooking; the preparation and service of meals; the proper food for children, adults, aged, and sick; cost of food; care of the food in the home. Laboratory and recitations.

Clothing. ($\frac{1}{2}$ -3).—Types of materials best suited to articles or garments being made; skill in the different sewing processes, construction of garments and dresses; renovation of materials; cost of clothing; hygiene of dress; millinery.

Home Making. ($\frac{1}{2}$ -1 $\frac{1}{2}$).—Care and sanitation of the home, house planning, furnishing, home management, home care of the sick, care of children.

Five periods—ninety minutes each—thirty-six weeks, count for one unit.

Manual Training

Shop Work. ($\frac{1}{2}$ -4).—Credits will be allowed as follows: Two units in joinery, wood turning, and cabinet making; $\frac{1}{2}$ unit in pattern making; $\frac{1}{2}$ unit forging; $\frac{1}{2}$ unit foundry; $\frac{1}{2}$ to 2 units machine shop; $\frac{1}{2}$ to 2 units printing; $\frac{1}{2}$ unit for sheet metal work; $\frac{1}{2}$ unit for electric wiring; 1 to 2 units for auto shop work.

Mechanical Drawing. ($\frac{1}{2}$ -4).— $\frac{1}{2}$ to 2 units will be allowed for mechanical drawing; $\frac{1}{2}$ to 2 units for machine drawing; $\frac{1}{2}$ to 2 units for architectural drawing; $\frac{1}{2}$ to 2 units for sheet metal drawing.

Five periods—ninety minutes each—thirty-six weeks, count for one unit.

Normal Training Subjects

Psychology. ($\frac{1}{2}$ -1).—The chief emphasis should be upon instinctive tendencies, habit formation, memory, association, economy of learning, the affective life, and the thought processes. Both general and educational psychology, forming the basis of the specific courses in educational theory and practice, should be stressed. The course should be based on some standard text, correlated with supplementary readings.

Classroom Management. ($\frac{1}{2}$ -1).—A discussion of classroom organization, classroom routine, the daily program, etc., should be followed by an analysis of the principal types of teaching, technique of instruction, assignments, teaching how to study, and the art of questioning. Standard text, together with abundant supplementary material, should be mastered.

Special Methods, Observation and Practice. ($\frac{1}{2}$ -1).—Practice teaching should be preceded by systematic observation of classroom work. During the term in which the student undertakes practice teaching, it should be the dominating feature of the student's work. For the work in special methods some standard text should be studied.

LIST OF ACCREDITED HIGH SCHOOLS OF ARKANSAS

(Correct to January 1, 1924. Another revision of these lists is made in June. All of these schools are fully accredited four-year high schools. The class "A" list, with a few exceptions, is composed entirely of schools accredited by the Association of Colleges and Secondary Schools of the Southern States.)

CLASS "A" SCHOOLS

Arkadelphia	Arkansas Christian College
Arkansas College (Preparatory Department)	(Preparatory Department)
	Augusta

Batesville	Monticello
Blytheville	Mountain Home College (Preparatory Department)
Camden	Mt. St. Mary's Academy (Little Rock)
Central College (Preparatory Department)	Nashville
Crossett	Newport
Dermott	North Little Rock
Earle	Ozark
Eudora	Paragould
Fayetteville	Paris
Fordyce	Pine Bluff
Forrest City	Prescott
Fort Smith	Rogers
Galloway College (Preparatory Department)	Searcy
Helena	Siloam Springs
Henderson-Brown College (Preparatory Department)	Stuttgart
Hendrix College (Preparatory Department)	Subiaco College (Preparatory Department)
Hope	Texarkana
Hot Springs	University High School (Fayetteville)
Jonesboro	Van Buren
Lake Village	Walnut Ridge
Little Rock	Warren
Lonoke	Wilson
Magnolia	Wynne
Marianna	

CLASS "B" SCHOOLS

Annunciation Academy (Pine Bluff)	Clarksville
Arkansas City	College of the Ozarks (Preparatory Department)
Ashdown	Conway
Atkins	Corning
Bauxite	Cotton Plant
Bearden	Danville
Benton	DeQueen
Bentonville	DeWitt
Berryville	Dierks
Booneville	Dumas
Brinkley	El Dorado
John E. Brown College (Preparatory Department)	England
Cabot	Eureka Springs
Caddo Valley Academy (Womble)	Fouke
Carlisle	Foreman
Charleston	Gentry
Clarendon	Gillett
	Glenwood
	Greenwood

Hamburg	Osceola
Harrisburg	Parkin
Harrison	Piggott
Hartford	Pocahontas
Hatfield	Portland
Hazen	Prairie Grove
Heber Springs	Ratcliff
Huttig	Rector
Junction City	Rison
Leslie	Russellville
Lewisville	Sloan-Hendrix Academy (Im-
Lockesburg	boden)
Luxora	Springdale
Malvern	Stamps
Mansfield	Stephens
Marion	Thornton
Marked Tree	Tuckerman
Marshall	Tyronza
Maynard Baptist Academy	Waldron
McGehee	Watson Chapel
Mena	Wilmar
Morrilton	

ADMISSION AS A SPECIAL STUDENT

The dean of the college may, at his discretion, permit a student who has presented fifteen entrance units, to classify as a special student.

A person of mature age, who is not a candidate for a degree, and who does not present the number of units necessary for entrance, may, under certain conditions, be admitted as a special student. Application for admission to the University by this method should be made to the University Examiner. The minimum age limit upon which any person will be permitted to enroll as a special student without presentation of entrance units is twenty years, except in the trade courses in the College of Engineering, and in the short course in the College of Agriculture, where it is sixteen.

Special students are subject to the same regulations as other undergraduate students. They may become candidates for a degree by complying with the necessary regulations. No person will be permitted to register as a special student for more than one year without the permission of the dean of the college concerned. Admission as a special student does not exempt the student from Military Art in the case of men students, or from Physical Education in the case of women students.

ADMISSION TO ADVANCED STANDING

Students presenting transcripts of credits from institutions of recognized standing may receive credit without discount to the extent that the subjects offered for advanced standing may be

counted in fulfilling the requirements for a degree in the University of Arkansas. In no case may an undergraduate student receive credit for more than three full year's work. The University reserves the right to revise or cancel an account of advanced standing after a student has been in residence.

Transcripts of credits from institutions not of recognized standing may be dealt with in one of two ways, at the discretion of the University Examiner. (1) A student presenting a transcript may be given a certain amount of provisional credit which he may hold free from qualifications, after he has completed in the University of Arkansas further work in those subjects for which he is asking advanced credit. (2) Such a transcript may be refused altogether, in which case the transcript is held merely as evidence that the student has studied the subject, and is entitled to make application for an examination for advanced standing. No student will be admitted to examination for advanced standing in any subject unless he can present documentary evidence that he has at some time studied that subject. An application for advanced standing by examination must be made within six weeks after the student first enters the University.

All transcripts of credits should be sent to the University Examiner before the opening of the term in which the student expects to enter, or should be presented to the Examiner immediately upon the student's arrival.

Only officially signed transcripts will be accepted for evaluation. They should include a complete record of the courses pursued, with the number of weeks and hours a week spent upon each subject. If occasion arises, the Examiner may have the right to demand that a catalog of the years covered by the transcript be also presented.

ADMISSION TO GRADUATE STANDING

Regulations governing this subject are laid down in this catalog under the heading "Graduate Work and Advanced Degrees."

FEES AND EXPENSES

BENEFICIARY APPOINTMENTS

Free tuition is granted, under a state law, to one thousand students residing within the state. The appointments are apportioned to the various counties according to population, and are obtained from the county judge. Those who are unable to obtain appointments from the county judge may receive them from the President of the University until the number of one thousand is reached.

FEES

All fees must be paid in advance to the Treasurer at the beginning of each term. No student will be allowed to attend classes until his fees are paid.

Matriculation, student activities, and library fee (paid by all students) each term.....	\$10.00
Tuition fee (paid by all non-resident students and by others who do not hold beneficiary appointments) each term	10.00
Diploma fee (payable at graduation).....	10.00
Certificate fee (payable at graduation).....	5.00

A fee of one dollar will be charged to students entering late, for each day beyond the close of registration. This fee will not be charged against new students.

A laboratory fee is required of all students pursuing laboratory courses. Students who break or destroy apparatus or equipment in the laboratories will be required to pay the cost of it.

The amounts of laboratory fees, fees for music, etc., are given under the proper courses.

EXPENSES

The following estimates, based upon data secured from students recently in attendance, will give some idea of the cost of attending the University for a year, although it should be realized that some few courses entail additional expense which will raise these averages:

	Low	Moderate	Liberal
Board, Laundry, heat, and light.....	\$245	\$300	\$360
Books, instruments, and other supplies	20	30	40
Other expenses	25	35	60
Matriculation fee and student activities fee.....	30	30	30
	<u>\$320</u>	<u>\$395</u>	<u>\$490</u>

BOARD AND ROOM

The men's dormitories provide accommodation for about one hundred and seventy-five students. The rooms are furnished

with beds, springs, mattresses, chairs, and tables. A charge of one dollar a month from September to June, inclusive, for each occupant is made. The recreation rooms and parlors in Hill Hall have been reconstructed, refurnished, and made very attractive. Board, heat, light, laundry, water, and janitor service are provided at cost, which is from \$26.00 to \$30.00 a month.

The women's dormitory provides accommodation for about one hundred and twenty students. For rooms, furnished except for linen, towels, and bedding, a charge of one dollar a month from September to June, inclusive, for each occupant is made. The cost of board, including light, water, heat, and janitor service, is from \$26.00 to \$30.00 a month.

Reservations for rooms in any of the dormitories may be made by application either to the Treasurer of the University, or to the matrons of the dormitories. In order to hold a room, however, it will be necessary for the applicant to deposit a fee of \$5.00 with the Treasurer of the University on or before September 1. The reservation fee will be credited to the student on his room rent. Room reservation fees deposited before the first of September are returnable before that date. After September 1 the fee is not returnable.

Lodging in private homes near the University may also be had at reasonable rates. Boarding places, other than the dormitories must be selected from a list approved by the University authorities and may not be changed except by the consent of the Dean of Women, or of the Dean of Men.

OPPORTUNITY FOR SELF SUPPORT

A good many of the students in the University are earning some part of their expenses by assisting in the dormitory dining-rooms and University offices, or doing work for townspeople. A large number secure employment through the assistance of the Y. M. C. A. or Y. W. C. A. Every effort is made to secure employment for students desiring work. A student should, however, ordinarily be able to bring with him or to secure during the year, at least \$150.00.

ALUMNI STUDENT LOAN FUND

At a meeting of the Alumni Association held in June, 1922, the semi-centennial fund was established. Part of this fund is known as the Alumni Student Loan Fund, which is to be used for the benefit of students who need financial assistance to continue their University course. This fund is administered by a committee of the University Senate. In making loans, preference is given to students belonging to the upper classes of the University. The amount loaned to any one student is limited to his actual needs. Applications for loans should be made to Dean G. E. Ripley.

A. F. W. C. STUDENT LOAN FUND

The Arkansas Federation of Women's Clubs has established a loan fund for worthy students, whereby young men and women can obtain financial assistance to continue their education. Further information may be had by writing to Mrs. A. Marinoni, Chairman, Fayetteville, Arkansas.

HONORS, SCHOLARSHIPS
AND PRIZES

SCHOLARSHIPS

Women's Clubs Scholarships. The Federation of Women's Clubs of Arkansas offers two annual scholarships, one for men and one for women. Competitive examinations are held in June by the county examiner or county superintendent under the direction of University authorities. Persons who wish to take the examination should notify the University Examiner before May 1. Graduates of the high schools of Little Rock, Fort Smith, Helena, Texarkana, Pine Bluff, and Hot Springs are not eligible. The scholarships pay approximately \$150 each.

Daughters of the Confederacy Scholarships. The Daughters of the Confederacy of Arkansas have provided one scholarship.

University Scholarships. The Board of Trustees has provided one scholarship annually to be awarded to the honor graduate of each fully accredited public high school within the state. In case a particular high school does not select any member of the graduating class as the honor graduate, the scholarship shall be awarded to the student who has made the highest average in his studies for the entire high school course. The scholarship grants exemption from the payment of matriculation, student activities, and library fees.

Departmental Scholarships, about six in number, and paying approximately \$250 a year, will be awarded each year to graduate students. These scholarships are open to graduates of the University of Arkansas and of other institutions. In return for the stipend received the student will be expected to give a reasonable amount of assistance in the work of the department. Students desiring to apply for these scholarships should make application to the head of the department having charge of the field of work in which the student wishes to specialize.

HONORS

By a system of departmental, class, and graduation honors, the University gives official recognition of attainments in scholarship.

Departmental Honors. To be eligible for departmental hon-

ors, a student must have passed in at least twenty-seven term hours in the particular department with a grade of "A." From the students who are eligible for honors in a department, the teaching force of that department will select the first and second. As a basis for this selection, all of the work done in the department, and general class standing, if necessary, will be considered.

Class Honors. Any student who passes in at least twenty-four hours of collegiate work, receives a grade of "A" in not less than eighteen hours, and ranks not less than "C" in any course, will receive class honors.

Honors at Graduation. Any student who makes class honors in both his junior and senior years will be termed an honor graduate.

All honors are published at commencement, and in the catalog for the following year.

All students who are honor graduates have the fact noted in their diplomas.

PRIZES

William Jennings Bryan Prize. The Hon. William Jennings Bryan has given to the University the sum of \$250, the interest on which is offered annually as a prize for the best essay on some topic relating to the problems of government. The contest is open to juniors and seniors. Further information may be obtained from the professor of economics and sociology.

Troy W. and Jessie Lewis Economics Essay Prize. Mr. Troy W. Lewis, of Little Rock, offers annually a prize of \$10.00 to that member of the senior class who writes and submits the best essay on some economic subject. Further information may be obtained from the secretary to the president of the University.

Judd Prize. Mr. Lloyd Judd, of Little Rock, offers an annual prize of \$20.00 for excellence in public speaking. The award is made on the basis of the best class record in extemporaneous speaking (Public Speaking 533).

Chi Omega Prize. The Chi Omega sorority offers at each institution at which it has a chapter an annual prize of \$15.00 for the best essay on some topic connected with the study of sociology. The contest is open to all women of the University who are pursuing courses in economics or sociology.

Brough Debating Medal. Ex-Governor Charles Hillman Brough, formerly head of the Department of Economics and Sociology at the University, offers a medal of the value of \$20.00, or a cash prize of \$20.00, for excellence in debate. Under the conditions of the award, two debates must be held during the year, one formal, in which the speeches are prepared, valued at sixty per cent, and one informal, in which the speeches are extemporaneous, valued at forty per cent. These debates are designed to train students in the art of forensic speaking.

Engineers' Prizes. The Arkansas Chapter of the American Association of Engineers offers annually two prizes as follows: A prize of \$20.00 will be given each year for the best thesis on an Engineering subject written by an electrical, mechanical, or civil engineering student. Copies of the completed thesis are to be forwarded to the Secretary of this Association at Little Rock, Arkansas. A prize of \$10.00 will be given each year to any engineering student who wins first place honors in an oratorical contest upon a subject, or subjects, foreign to engineering work.

Science Club Prize. The Science Club of the University offers a prize of a medal, or of scientific books or apparatus of like value, to a member of the senior class upon the basis of his grades in science courses pursued in residence at the University up to the beginning of the last term of his senior year.

ORGANIZATION AND ACTIVITIES

CONVOCATION

Convocation exercises for the faculty and students are held in the auditorium on the first floor of University Hall at the call of the President. The programs consist of addresses and lectures by men in public life, discussions of University affairs and problems, and musical numbers. Attendance at convocation exercises is required of all freshmen and sophomores.

CHRISTIAN ASSOCIATIONS

The Christian Associations stand for spiritual, mental, social, and physical development. Their mission is to befriend and inspire the students, and to train them for religious, as well as business, social, and intellectual leadership after leaving the University. Each association employs a general secretary who gives full time to the work.

The Y. M. C. A. holds religious meetings every Thursday evening, and Gospel teams are sent out on many Sunday afternoons to hold services at nearby country churches. A strong Friendship Council is another part of the work. A number of delegates go to the Student conferences, held each summer at Hollister, Mo.

The Y. W. C. A. has an office in University Hall, fitted in a home-like manner, and open at all times to the women students. Weekly vesper services are held on Thursday evening in the Y. W. C. A. room at Carnall Hall, and Sunday morning matins are observed. At the beginning of the year the Big Sister work helps freshmen in getting adjusted to their new environment. The Freshmen Commission selects and trains outstanding freshmen girls for leadership in Christian work. A Girl Reserve Club in the University High School is sponsored

by the Y. W. C. A. Discussion groups throughout the year consider campus problems and issues of the day. National Week of Prayer and other national programs are observed. Delegates are sent to the annual summer conferences of the Y. W. C. A. at Estes Park, and to the National Biennial Conventions. The University Y. W. C. A. helps to support a secretary in Shanghai, China.

Much of the work of the Associations is carried on jointly. A mission Sunday School in a suburb of Fayetteville is directed by students, and during the year socials and a Christmas tree are given. Both Associations have Bible discussion groups led by faculty members and students. Special emphasis is put on World Fellowship work. A Service Band composed of Student Volunteers and of members of the Fellowship for Christian Life Service has been organized.

The social life of the University is much helped by the Associations, which give a reception at the beginning of the year, in honor of the new faculty members and students. Hallowe'en, Valentine, and other socials, are given.

Speakers of national and international reputation are brought to the University under Association auspices, and strong emphasis is placed on Christian life-work. No other organizations on the campus have so large a field of usefulness or so unifying an influence. Their fundamental purpose is to bring the Christian Way of Life into all student relationships and to send students of the University of Arkansas into the world better prepared to inculcate Christian principles onto matters political, social, and economic.

DEBATE

The University holds annual debates with other collegiate institutions, each institution being represented by one team on the affirmative side of the question and one team on the negative. The debates are held usually during the second week of April. Each member of the intercollegiate debating team is awarded an "A" to be worn on a fob or pin in recognition of his services, and is allowed four term hours of credit toward a degree (see Public Speaking 540).

ATHLETICS

The Athletic Board of Control, composed of four members of the faculty and three students, has general charge of athletics. The Director of Athletics, assisted by special coaches for football and baseball, has the immediate supervision of all athletic activities for men students. The Professor of Physical Education for Women supervises athletics for women.

The University is a member of the Southwest Intercollegiate Athletic Conference, and as such is governed by the rules of the Conference in all intercollegiate athletic contests. Some of the more important rules of eligibility are:

1. No student shall participate in any intercollegiate athletics until one year from the date of his registration in the institution which he represents, except as a member of the freshman team. The University provides for the coaching of a freshman squad and arranges a schedule of games for the freshman football team.

2. No person not an amateur shall be allowed to represent any member of the Conference in any athletic contest.

3. A student transferring from one institution of collegiate rank to another shall not be eligible to compete in intercollegiate athletics until he has been a student for one year in the institution to which he transfers.

4. No person shall be permitted to participate in intercollegiate athletics who is not a student in good and regular standing, who is not taking at least the minimum amount of work prescribed in the regular course of study in his institution, and who is not making a passing grade in at least two-thirds of the normal amount of work prescribed.

5. No student shall be eligible to compete in intercollegiate athletics, who, during his last semester in attendance, failed to pass two-thirds of the normal work for his course.

6. If a man be dropped from an institution of the Conference on account of scholastic deficiency, he shall not be eligible to compete in athletics until he shall have completed one full year's work, passing two-thirds of the work taken.

UNIVERSITY ORGANIZATIONS

The *American Institute of Electrical Engineers*, local branch, meets weekly for the presentation of original papers and discussion of professional topics. All students interested in electrical engineering are eligible to membership.

The *American Association of Engineers*, local chapter, meets monthly. Its purpose is to promote the interests of the engineering profession, to make it more useful in public affairs, and to aid its members in securing employment.

The *University Society of Civil Engineers* meets weekly for the presentation of original papers and the discussion of current technical literature.

The *American Society of Mechanical Engineers*, local section, meets bi-weekly for the presentation of original papers and discussion of professional topics. Occasionally a lecture by some prominent engineer takes the place of the regular program.

The *Agricultural Club* meets weekly to discuss topics of practical and theoretical interest to students of agriculture and current topics of general interest. Occasional lectures by experts in agriculture to take the place of the regular programs.

The *Education Club* meets bi-weekly for the discussion of problems of educational research being conducted by the more advanced students of the group, and the presentation by them,

and by faculty members and invited guests of prominence in the field of education, of modern discoveries and methods.

The *Home Economics Club* is an organization of students who desire to promote the standards and ideals of home economics, and who wish to create a basis for wholesome social development.

The *Women's Athletic Association* has for its aim the physical development of all women students, and co-operates with the Athletic Board of Control for the advancement of all athletics in the University. It is affiliated with the National Athletic Conference of American College Women. The head of the women's department of physical education is an ex-officio member of the association, and supervises its activities.

The *Pre-Medical Club* is composed of students who are planning to take up the study of medicine. The object of the club is to give these students an opportunity of hearing lectures on medical subjects.

The *Math Club* meets bi-weekly for programs of talks and papers on topics of interest in mathematics.

The *Science Club* meets bi-weekly for discussions, lectures, and papers by interesting speakers in the current scientific world.

The *University Orchestra* meets weekly for ensemble playing of lighter music and of standard overtures. Membership is competitive.

The *University Band* plays weekly and takes part in all outdoor functions, parades, etc., in the University. Membership is competitive.

The *Writers Club* is composed of ten junior and senior men who have been recommended by the English department. Original work is read and discussed on Tuesday of each week.

Gamma Chi is a chemical professional local fraternity open to students majoring in chemistry or chemical engineering. Meetings are held the second Thursday of every month.

The *Black Friars* meets bi-weekly for the study of plays, classic and current, and for general information in matters pertaining to the drama and to the theater. Membership in the society is limited to twenty-five.

The *Men's Glee Club* is open to all men students. Membership is determined by competition. A trip is taken in the state every spring.

The *Women's Glee Club* is open to all women in the institution, upon a competitive basis. Several concerts are given during the year.

HONOR SOCIETIES

Tau Beta Pi is restricted to engineering students. The object of the organization is to encourage scholarship and to foster liberal culture among engineering students. Eligibility to membership is based upon high scholarship and character.

Skull and Torch is restricted to juniors and seniors in the

College of Arts and Sciences and the College of Education who are candidates for a degree. Eligibility to membership is based upon high scholarship and personal character.

Alpha Zeta is restricted to upperclassmen in the College of Agriculture. Eligibility to membership is based upon high scholarship and character.

Pi Kappa is an honorary sorority for young women interested in journalism. Election to *Pi Kappa* comes as a reward for consistent and efficient work on University publications.

Pi Delta Epsilon is restricted to upperclassmen. The purpose of the organization is to promote the interest of college journalism by making membership conditional upon faithful and efficient service on college publications.

Alpha Tau Kappa is restricted to intercollegiate orators and debaters. The aim of the organization is to encourage and reward meritorious effort in public speaking.

Phi Alpha Theta is an honorary historical society based on interest and achievement in its chosen field.

Scabbard and Blade is restricted to cadet officers. Eligibility to membership is based upon efficiency, personal character and influence, and interest in military affairs.

Lambda Tau is a women's honorary literary organization for the purpose of "creating and fostering a greater interest in literary activity by associating together girls who are definitely interested in literary work and, by giving recognition to girls who have shown some ability along this line, to encourage further literary endeavor." Two women members of the English faculty act as sponsors for the organization.

ALUMNI ASSOCIATION

The Alumni Association of the University of Arkansas recently adopted a new constitution which extended its membership to include all former students in good standing who were regularly enrolled in the University for one year. The Association meets annually on Monday of commencement week.

The Association publishes monthly the *Arkansas Alumnus*, which carries news items about former students and also reports the progress of the University. Dr. A. M. Harding, '04, Director of General Extension, is serving as General Secretary. Mrs. Zillah Cross Peel, Ex. '91, is associate Secretary.

The expense of the alumni office is taken care of largely by the University. It is hoped that this expense will gradually be assumed by the Alumni Association.

STUDENT PUBLICATIONS

The Arkansas Traveler, published weekly by student editors, is devoted to current news and matters of interest to the University as a whole.

The Razorback is published annually by the junior class. It

contains pictures of individuals, classes, and organizations and serves as a history of the school year.

The Arkansas Engineer is issued quarterly by the students of the College of Engineering.

The White Mule is a new monthly humorous paper.

RULES AND REGULATIONS

Each student at the time of registration is given a copy of the rules and regulations for undergraduate students, for the observance of which he will be held strictly responsible.

STUDENT HEALTH SERVICE

A free medical service is maintained for students, by the University, with the following privileges:

1. A thorough physical examination by the University Physician at first entrance. Other examinations will be given later if necessary.

2. Consultation with the University Physician during office hours at the University.

3. Necessary calls by the University Physician at the student's home, and all visits that may be necessary while the student is confined in a hospital.

4. Board, lodging and nursing at University hospital, in case of necessity, not to exceed 21 days in any one college year. In the event of an epidemic or an unusual amount of sickness, the limit may be reduced. In case of necessity the limit may be extended. Any reduction or extension will be made only upon the recommendation of the University Physician with the approval of the President of the University. These provisions apply only for the relief of acute conditions. They include the services of a nurse or nurses regularly employed by the University, but do not include the employment of special nurses. These, if called in, must be paid by the student. In case the University hospital is filled to capacity, the University is not under obligation to provide hospital service elsewhere free of cost.

5. The ambulance or carriage required to convey a student to the hospital.

6. Minor surgical operations for the relief of acute conditions, such as cuts, sprains, and simple fractures.

No student is required to patronize the University Physician. At his own expense any student may employ any other physician he desires. Consultation fees of other physicians whom the student may call in to act with the University Physician must be paid by the student. A student may employ another physician than the University Physician and still be entitled to the benefits of provisions 4 and 5 above, provided that no account shall be entered against this department except by permission of the University Physician.

Vaccination against smallpox will be performed by the University Physician free of charge. Other vaccination will be performed at the cost of materials used.

Medicines will be paid for by the student.

The provisions of the Student Health Service do not extend to chronic cases or to diseases which are the result of the student's own misconduct.

DISCIPLINE AND ATTENDANCE

Students are required to be diligent in the pursuit of their studies and regular in their attendance at class. Those who fail to meet these requirements will be requested to withdraw.

Students are required to attend all meetings and examinations of courses for which they are registered. For each eleven credit hour absence the student will be required to complete one extra hour for graduation.

Absences with athletic teams, debating teams, or other organizations which leave the University on official work, and absences of individuals who are permitted by the President to leave the University on official business pertaining to the University, or some organization thereof, are counted at half rate, provided the coach, manager, or other person in charge, files with the Registrar, before leaving the University, a certificate, upon a form prescribed by the University, for each student who proposes to make the trip.

Absences due to sickness of the student, or of a member of his immediate family, or to death in the student's immediate family, count at half rate, provided the student files in the office of the Registrar, not later than one week after his return to classes, upon a form prescribed by the University, a statement of the cause of his absence verified by the certificate of the attending physician. Such certificate forms may be obtained from the office of the Registrar.

Students incurring absences in accordance with the above regulations may have the privilege of making up the lost recitations, as evidenced by turning in written work, or in some other manner satisfactory to the instructor concerned. When such lost recitations have been made up, the remaining absences are removed. Applications for the privilege of making up absences must be made to the Registrar *within one week* from the time of return to the University.

Each absence on the first day of any term or on the day preceding or following any holiday, counts as four, unless the student files with the Registrar a statement showing that such absence was caused by illness, death in the family, or some other cause which the Registrar may deem adequate.

The Registrar will, at any time he may deem advisable, report to the Committee on Attendance and Discipline any student who absents himself from his University duties without good reason.

A student who is absent from an examination must explain his absence to the University Examiner within a time set by the Examiner. Failing to do so, he will be given a grade of "F" in the course.

In accordance with state law, all students, members of the faculty, and employees of the University, are required to present certificates of successful vaccination. Students who fail to present certificates will not be allowed to attend classes.

REGISTRATION

Students are required to matriculate and classify before the beginning of each term. Those who enter a course late will be held accountable for all work of the course previous to their entrance.

STUDENT EVENTS

Permanent dates have been established for the following annual events:

Intercollegiate Debate.....the first Friday in April
Engineers' Day.....the second Wednesday in April
Agri Day.....the last Wednesday in April
Junior-Senior Day.....the second Wednesday in May

STUDENTS' WORK

A student in his first term at the University, unless he is registered in a class higher than the freshman, is not permitted to carry a greater number of hours than the normal number required in his course, provided that the dean of the college concerned may at his discretion allow such student to carry one hour more than the maximum prescribed. Students who have done work of an exceptionally high grade in the high school may be exempted from the operation of this rule by permission of the dean of the college concerned.

A student who has failed in any subject (not including physical education and military art) in any term will not be allowed the next following term to carry more than the normal number of hours required in his course.

The dean of the college in which a student is enrolled may, at his discretion, limit the number of hours that the student will be allowed to carry.

A student may enroll in two classes when a conflict occurs only by permission of the dean of the college and of the heads of the departments concerned. In no such case will a student be allowed to lose more than one-third of the time devoted to recitation in either class. The student will be charged with all absences incurred through such conflict.

COURSE SYMBOLS

The numbers of the regular college courses contain three digits: the first indicates the college year, the second the num-

ber of hours of credit a week; the third the particular course.

101 to 199—Courses which are open to freshmen.

201 to 299—Courses which are required of sophomores in one or more of the colleges, or elective for sophomores, juniors, or seniors.

301 to 399—Courses which are required of juniors in one or more of the colleges, or elective for juniors and seniors.

401 to 499—Courses which are required of seniors in one or more of the colleges, or elective for seniors.

501 up —Open electives for sophomores, juniors, and seniors.

Courses with double or triple numbers, in parenthesis, like English 131 (132) (133), run through two or three terms, respectively, and, except with the professor's consent, credit will not be allowed until the final term's work is completed. If the numbers are not in parenthesis, credit will be allowed for a single term's work.

No student may enroll in a course until he has successfully completed all prerequisites to that course.

CREDIT HOURS

The number of term credit hours allowed in each course is identical with the number of hours a week spent upon that course except that in the laboratory, shop, or field work two to three hours will be considered equivalent to one hour of lecture or recitation.

GRADING AND EXAMINATIONS

The following grading system is in effect: A, B, C, D (passing grades), E (conditional failure), F (absolute failure). A student receiving a grade of "E" may remove it by an examination. A student receiving a grade of "F" will not receive credit for the course except by repeating it in class. A student receiving a grade of "D" in any subject will have an opportunity to raise this grade by passing an examination. Should he elect to take such examination, the grade made upon the examination will become a part of his permanent record in place of the first grade made.

Examinations to raise the grade "D" or to remove the grade "E" will be given on Monday and Tuesday of registration week in the student's next succeeding college year. In the case of seniors applying for graduation, a re-examination either to remove the grade "E" or to raise the grade "D" may be given in the same year prior to commencement at a time set by the Examiner.

Seniors applying for graduation and carrying the requisite work to entitle them to graduation, may, upon the recommendation of the instructors concerned, be excused from final examinations in each course in which their grade is as high as "B."

Notices of exemption are sent by the Examiner near the end of the term.

If for any reason a student drops a course after the sixth week of the term, and if the student's work during the time that he attended the course was below the grade of "D," there will be entered on his record a grade of "F" in that course; if "D" or above, he will be marked "Excused" in that course.

The grading system in the University of Arkansas is based not on the individual instructor's idea of what constitutes a high grade or a low grade, but on *relative rank in classes*.

By the system of grading it is proposed to divide the students into three large groups, according to achievement. The first of these is the superior group, which contains approximately one-fourth of all the students in the University. To these are given the grades A and B, the A group representing a relatively small number of unusually excellent students.

The second is the average or median group, which comprises about one-half of all the students. These are given the C grade.

The third group comprises that quarter of the students whose work is inferior to that of the other three-fourths. To these are given the D, E, and F grades.

It is understood that, in classes containing small numbers of students, no instructor can fully carry out this distribution of grades. It is the expectation, however, that unless the classes of any instructor, by reason of sectionizing on the basis of ability, regularly include unusual numbers of good students, or of inferior students, as the case may be, his grades will, over a period of years, conform approximately to the scale:

- A, not more than ten per cent;
- B, not more than twenty per cent;
- C, from forty to fifty per cent;
- D, approximately twenty per cent;
- E and F combined, not more than ten per cent.

REQUIREMENTS FOR GRADUATION

The College of Arts and Sciences and the College of Education are the only divisions of the University in which a student may be graduated who has a failing grade on his record which has not been removed by satisfactory repetition of the class-work or by examination, or excused by the faculty of the college concerned.

No student will be allowed to graduate from any division of the University if more than twenty-five percent of all his work done in the University is of the "D" grade.

In addition to completing the prescribed course of study, candidates for a degree are required to do at least the work of the senior year in residence.

According to a state law, no degree will be granted to any student who has not passed a one-year course in American his-

tory and civil government. This does not apply to students enrolled prior to September 1, 1922.

GRADUATE WORK AND ADVANCED DEGREES

All work for higher degrees is placed under the administrative supervision of the Senate Committee on Graduate Study, which consists of members of the University Senate appointed by the President, and of the University Examiner. This Committee retains supervision over the graduate student throughout his course of study, and recommends to the Senate that a higher degree be conferred.

A student seeking admission to graduate standing must have completed an undergraduate course of four years, or its equivalent, at the University of Arkansas, or at some other college or university of equal standing. Such a student should present an official transcript of his complete undergraduate record to the University Examiner, who will present his name to the Committee on Graduate Study with the recommendation that he be admitted to graduate standing, or be not admitted, as his record may seem to justify.

Students who satisfy the Committee, and the department concerned, of their ability to pursue graduate work in a given subject may be enrolled in specific courses without reference to a degree. Admission to graduate standing does not grant admission to candidacy for an advanced degree. Such candidacy is determined by the Committee after the student has demonstrated by at least three months of resident work his ability to pursue studies of graduate character.

The University of Arkansas offers the following advanced degrees: (1) Master of Arts or Master of Science; (2) The professional degree of Chemical, Civil, Electrical, or Mechanical Engineer in the appropriate engineering subject.

THE MASTER'S DEGREE

The degree of Master of Science will be conferred for graduate work of which the major portion has been done in agriculture, education, or home economics. For work in other subjects the degree of Master of Arts will be conferred. Students majoring in natural science may, however, at their option, receive the degree of Master of Science.

The minimum time in which a candidate may be permitted to complete the degree is one academic year. When the Committee deems it necessary, more than one year will be required.

The candidate is required to complete one major subject and not more than two minor subjects. The major subject includes, with the thesis, at least twenty-four credit hours. The minor subjects occupy together eighteen credit hours. The choice of the candidate's major and minor subjects must have the approval

of the Committee and the major professor. The Committee will not accept for graduate credit any course open to Freshmen or Sophomores, or any other course not based on eight or more term hours of prerequisite work. Exception may be made to this rule only if the instructor files with the Committee, in advance, written outlines of additional assignments required of the student, and makes a written report to the Committee, at the conclusion of the course, supplementary to the grade given in this subject.

Forty-two of the forty-eight hours required of the candidate must be regular class-room work. Candidates who are graduates of this University may, however, pursue one-half of the required work *in absentia*, provided their undergraduate and graduate records are satisfactory to the Committee.

Candidates for the Master's Degree must maintain an average grade of B. No course shall count for graduate credit in which the grade is not at least C.

All candidates for the Master's Degree must submit a thesis showing marked attainment in their chosen major subject. The title of this thesis must be announced to the Committee for approval at least five months before the date at which the degree is expected; and the thesis itself must be presented to the Committee at a date to be set by the professor in charge of the major subject, but not later than thirty days before the date at which the degree is expected. The Chairman of the Committee shall deposit this thesis with the University Librarian for binding in the form prescribed. A fee of \$2.00 is required to cover the cost of binding this library copy. The minimum amount of credit for the thesis shall be three term hours; the maximum amount, six term hours.

In addition to all regular term examinations on the specific courses pursued, a candidate for a Master's Degree is expected to pass a comprehensive oral examination conducted by the professors in charge of his major and minor subjects, in the presence of an Examining Committee appointed by the Committee on Graduate Study for this purpose. This examination shall cover the candidate's chosen subjects irrespective of the particular courses he may have elected in his undergraduate or graduate career.

THE PROFESSIONAL DEGREE IN ENGINEERING

The professional degrees of Chemical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer, may be granted in one of two ways to students who have completed the appropriate undergraduate course. (1) The student must pursue at least one year of graduate work in residence under conditions outlined above for the Master's Degree; (2) He must have been in successful practice in his profession for at least three years, two of which must have been done after he received

his Bachelor's Degree. He must have been in responsible charge of work for at least one year. He must submit in writing to the Committee a statement of his professional record, and the names of at least three satisfactory references, not later than January 1 of the college year in which he seeks a degree. He must present a thesis under the conditions outlined above for the Master's Degree.

UNIVERSITY AUDITING

The financial accounts of all student organizations handling more than fifty dollars per annum, are audited by the secretary to the President. A system whereby all checks must be countersigned by this official offers an opportunity for the fullest publicity and develops a sense of financial responsibility in student treasurers. The combined funds draw interest on deposits, which is divided *pro rata* among the organizations.

COLLEGE OF ARTS AND SCIENCES

The object of the courses offered in the College of Arts and Sciences is to cover the broad field of general university study, including ancient and modern languages and literature, history and the social sciences, mathematics, the natural sciences, and the fine arts. It aims to afford the student an opportunity to gain a broad, cultural education, as well as to equip himself for further study in more technical fields.

ADMISSION

For a detailed statement of the entrance requirements and a description of the subjects accepted for entrance see previous pages.

GRADE POINTS

Grade points are awarded on the following basis:

For grade A, 6 points for each hour.

For grade B, 4 points for each hour.

For grade C, 2 points for each hour.

For grade D, credit, but no points.

For grade E, 1 negative point for each hour.

For grade F, 2 negative points for each hour.

No change in grade points will be allowed unless the subject be repeated in class.

In case of exemption from final examination, grade points will be granted as for grade of "B."

In order to graduate, a student must have an average of two grade points on all the work done in the University.

COURSES OF STUDY

The College of Arts and Sciences offers four-year courses leading to the degree of *Bachelor of Arts* (B. A.), *Bachelor of*

Science (B. S.), and *Bachelor of Music* (B. M.); a graduate course leading to the degree of *Master of Arts* (M. A.) and special courses in music leading to a diploma.

Candidates for degrees, who wish to teach in the schools of any state which requires professional preparation of its teachers, should take as part of their elective work the courses mentioned by the College of Education. They will then receive both the degree and the teachers' certificate which will entitle them to teach in any school in the state without being required to pass examinations for a teacher's license.

REQUIREMENTS FOR DEGREE *BACHELOR OF ARTS*

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily at least two hundred one term hours in approved courses with grade points amounting to four hundred two, to be chosen with the following restrictions:

1. Prescribed courses as follows: English 131 (132) (133), nine hours; Military Art, six hours (for men), or Physical Education, six hours (for women).

2. Elective courses to be chosen from the following groups, with the restrictions noted below:

Group 1: English, French, German, Greek, Italian, Latin, and Spanish.

Group 2: Astronomy, Botany, Chemistry, Geology, Mathematics, Physics, and Zoology.

Group 3: Economics, Education, History, Philosophy, Political Science, Psychology, and Sociology.

Group 4: Agriculture, Engineering, Fine Arts, Law, Medicine, Home Economics, and Bible.

a. The candidate may elect not more than sixty hours in any one subject, and not more than one hundred twenty hours from any one group. At least twenty-seven hours must be elected from group 1, and fifty-four hours from groups 2 and 3 combined, including not less than eighteen hours from each of these two groups (provided these fifty-four be exclusive of any course or courses offered from another college in the University), and not more than twenty-seven may be elected from group 4.

A committee consisting of the student's major professor, the dean, and the examiner is empowered to determine what courses offered from any other college may receive credit toward the degree of Bachelor of Arts. No student may receive credit for a course offered in another college who does not in advance secure permission from this committee to enroll in that course. A maximum of thirty-six term hours in approved courses may be offered from the College of Education.

b. No elementary course in science can apply toward requirements of group 2 unless it contains at least nine term hours.

c. The candidate must select, not earlier than the beginning of his sophomore year, and not later than the beginning of his junior year, one major subject, to be chosen from group 1, 2, or 3, in which he must complete not less than forty-five hours, and two minor subjects, in which he must complete not less than twenty-seven and eighteen hours, respectively, subject to the approval of the candidate's major professor and the dean of the college. A description of the major requirements of each department will be found under the departmental statements.

d. The candidate will be required to complete, in the combined high school and college courses, at least thirty hours of one foreign language, at least nine hours of which must be taken in college classes. In computing the total, each unit of high school work will count as equivalent to six hours of college work. The student must continue his language study until his requirement is satisfied, which, in case of a modern language, means a satisfactory working knowledge of that language.

e. The candidate must conform as closely as possible to the following schedule in the distribution of his work:

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, 132, 133.....	3	3	3
Military Art, 111, 112, 113 (or)			
Physical Education 111, 112, 113.....	1	1	1
*Elective	12	12	12
	<u>16</u>	<u>16</u>	<u>16</u>

Sophomore Year

Military Art 211, 212, 213 (or)			
Physical Education 211, 212, 213.....	1	1	1
*Elective	16	16	16
	<u>17</u>	<u>17</u>	<u>17</u>

Junior Year

*Elective	17	17	17
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Senior Year

*Elective	17	17	17
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BACHELOR OF SCIENCE

*Freshman Year***

English 131-3—9 hours.

Military Art 111-3—3 hours.

Science, 24 to 27 hours from:

*Note.—To be chosen with the advice and consent of the candidate's major professor.

**Note.—One subject other than English begun in high school must be continued in the Freshman year.

Botany 141-143.
 Chemistry 141-143 or 144-145.
 Geology 147-149.
 Mathematics 133, 150, 151, 152.
 Physics 141-143 or 144-146.
 Zoology 144-146.

Electives from:

Foreign Languages.
 Mathematics.
 History.
 Art.
 Mechanical Drawing.

Sophomore Year

Military Art. Major or Minor subject in Science, 9-12 hours.
 Science, 24 to 27 hours from:

Botany 141-143.
 Chemistry 141-143 or 144-145.
 Geology 147-149.
 Mathematics 133, 150, 151, 152.
 Physics 141-143 or 144-146.
 Zoology 144-146.

Electives from:

Foreign Languages.
 Psychology.
 Economics.
 History.

*Junior Year**

Major subject.
 Minor Subject.
 Foreign Language.**
 Elective:

Education
 English Composition (advanced)
 Any subject accepted for A. B.
 degree

{ In Junior
 or
 Senior
 Years

Senior Year

Completion of all Major and Minor requirements as follows:

Plan I: Major Science no less than 54 hours (as in present Chemistry course); two minor sciences no less than 45 hours.
 Plan II: Major Science no less than 45 hours; two minor sciences no less than 54 hours.

Completion of a total of at least 111 hours of science courses.

*Note.—By the end of the junior year at least four general introductory courses of 12 hours each in the laboratory sciences must be completed.

**Note.—The total of Foreign Language must include 24 hours in one of two foreign languages, including 12 hours which must be taken college classes.

Completion of no less than 18 hours in Group III of B. A. course (9 hours, exclusive of Education) during four years.

Completion of any language requirements not previously absolved.

PRE-MEDICAL COURSE

Students who have completed no less than three full years of college work, including the subjects which are required for admission to the Medical College of the University of Arkansas or any standard approved Medical College, may offer the first year's work done at the Medical College to fulfill the requirements of the senior year at the University of Arkansas.

Such students should make application to the dean of the College of Arts and Sciences before April 1 of the year in which the degree is expected. The degree will be conferred upon official advice from the registrar or dean of the Medical College including a transcript of the students' record, or a certificate setting forth the fact that the work completed constitutes a full year's work satisfactorily completed in Medical College.

The subjects included in the curriculum of such students and the electives chosen during the junior year must include subjects in Groups 1, 2, or 3 of the catalog, so selected that the student will be able to enter the particular Medical College of his choice with the necessary prerequisites in every subject, and must aggregate a total of 150 hours.

All standard medical schools now require a minimum of two years of college work for entrance. The curriculum for these first two years is as follows:

Freshman Year

Chemistry	141, 142, 143
German	141, 142, 143
or French	141, 142, 143
Zoology	144, 145, 146
English	131, 132, 133
Military Art	111, 112, 113

Sophomore Year

Chemistry	331, 332, 241
German	231, 232, 233
or French	231, 232, 233
Physics	141, 142, 143
Military Art	211, 212, 213
Electives	(6) (6) (6)

Wherever possible it is decidedly preferable for a student to spend three or four years in premedical work at the University. In such cases one of the sciences listed in the sophomore year should be postponed and an elective substituted. For the third and fourth years further work in the subjects above mentioned, as well as in Latin, Psychology, Mathematics should be taken.

BACHELOR OF MUSIC

In the following curriculum, majors and minors must be drawn from practical music—piano, pipe organ, violin, or voice.

<i>Freshman</i>	Hrs. Each Term	<i>Sophomore</i>	Hrs. Each Term
Major Music	2	Major Music	2
Harmony 1	1	Physical Education	1
Appreciation 1	1	Minor Music	2
Public School Music	2	Public School Music	2
Foreign Language	4	Harmony 2	1
English	3	History of Music	1
History	3	Foreign Language	4
Physical Education	1	English	4
	<hr/> 17		<hr/> 17
<i>Junior</i>	Hrs. Each Term	<i>Senior</i>	Hrs. Each Term
Major Music	2	Thesis	1
Minor Music	2	Recital	1
Counterpoint	1	Canon and Fugue	2
Form and Analysis	2	Selection and Interpretation	2
Appreciation 2	1	Pedagogy (Music)	2
Ensemble Music	2	Major Music	2
Electives	3	Electives	6
Psychology	4	Appreciation 3	1
	<hr/> 17		<hr/> 17

Choral singing is offered each year during the winter and spring terms as an elective, two hours each week.

SPECIAL COURSES IN THE DEPARTMENTS
OF MUSIC

The department of Music offers special courses, the completion of which is attested to by a diploma. The purpose of these courses is to give opportunity to persons who do not desire to become candidates for a degree, but who wish to do special work in music together with a small amount of work in courses of a general cultural nature, in preparation for teaching, or as a basis for further study.

Candidates for a diploma in music must meet the entrance, residence, and registration requirements, and must complete satisfactorily the following courses of study. Students who receive this diploma must show evidence of four years of college training in music.

First Year

CREDIT HOURS

	FALL	WINTER	SPRING
English 131 (132) (133)	3	3	3
Foreign Language	3-5	3-5	3-5
History of Economics	3-5	3-5	3-5
Theory of Music 111, (112) (113)	1	1	1
Theory of Music 114, (115) (116)	1	1	1
Theory of Music 117, (118) (119)	1	1	1

CREDIT HOURS

	FALL	WINTER	SPRING
*Piano, Violin, Voice, or Organ.....	1	1	1
Physical Education 111, (112) (113).....	1	1	1
Psychology 140, 245 (or 342), 230.....	4	4	3

Second Year

English 542, (543) (544).....	4	4	4
Foreign Language	3-5	3-5	3-5
Theory of Music 211, (212) (213).....	1	1	1
*Piano, Violin, Voice, or Organ.....	1	1	1
Physical Education 211, (212) (213).....	1	1	1

MASTER OF ARTS

Conditions for this degree are outlined on a previous page, under the heading "Graduate Work and Advanced Degrees."

DEPARTMENT STATEMENTS

ANCIENT LANGUAGES

PROFESSOR STRAUSS, MR. HAMBLIN

Requirements for a Major in Latin or ancient languages: Forty-five credit hours. Students who expect to teach Latin in secondary schools should complete course 147 (148) (149) and at least nine hours of more advanced work.

Latin

111 (112). LATIN AND GREEK WORD-ROOTS IN ENGLISH.—Requires no knowledge of the Greek language and but one year of Latin. Gives a working knowledge of the common roots used in the formation of English words, both technical and general. Especially for students of science who do not continue Latin. Winter and spring. STRAUSS.

114 (115) (116). ELEMENTARY LATIN COMPOSITION.—Required of all students taking 131 and of those taking 134 who have had no equivalent course. One hour a week. HAMBLIN.

131 (132) (133). CICERO'S SPEECHES AND LETTERS.—Six speeches, and selections from the letters; a review of forms and syntax; introduction to the use of good English in translation. For students who offer two units of Latin for entrance. See course 114 (115) (116). HAMBLIN.

134 (135) (136). VIRGIL'S ÆNEID.—Due attention is given to forms, syntax, and prosody, but the chief aim is an appreciation

*In instrumental and vocal music no definite number of hours can be stated; the applicant must show the attainment of sufficient knowledge, technique, and ability before a diploma will be granted. In general, this will require from four to six years of study. In addition to the study of the major instrument the candidate will be required to spend at least one year in the study of some other instrument, or of voice, subject to the approval of the head of the department.

of the poem as literature. For students who offer three units of Latin for entrance. See course 114 (115) (116). HAMBLIN.

141 (142) (143). ELEMENTARY LATIN FOR BEGINNERS.—Grammar and exercises. Cæsar, four books. To meet the needs of students in the sciences, and to lay a foundation for those students who intend to continue Latin or the modern languages. Will admit to Latin 131. HAMBLIN.

147. CICERO'S ESSAYS.—The *De Amicitia*, with a thorough review of forms and syntax at the beginning. Fall and spring.

148. LIVY.—Selections from Livy, Books XXI-XXII. Fall and winter.

149. LATIN COMEDY.—The *Phormio* of Terence. Winter and spring.

These courses, in any order, are open to those who have had four units of Latin, or 134-136. STRAUSS, HAMBLIN.

511 (512) (513). ADVANCED LATIN COMPOSITION.—Translation of English narrative and study of Latin idioms. Essential to students who are preparing to teach Latin. Prerequisite: Latin 147-149. STRAUSS.

514 (515) (516). LATE LATIN.—To show close connection between Latin and the Romance languages. Open to students who present two entrance units of Latin and who have not less than the equivalent of a full year in college of one Romance language. STRAUSS.

531. CICERO.—Selections from the Letters. Fall.

532. JUVENAL AND MARTIAL.—Juvenal's Satires; Martial's Epigrams. Winter.

533. PLINY.—Selections from the Letters. Spring.

The incidental object of courses 531-533 is to acquaint the student with Roman public and private life. Prerequisite: Latin 147-149. STRAUSS.

534 (535) (536). ROMAN POETRY.—Reading of selections from Roman poets. An attempt made to secure a good general view of the whole field of Roman poetry. Prerequisite: Latin 147-149. HAMBLIN.

537. HISTORY OF ROMAN LITERATURE.—Mackail's Latin Literature, supplemented by lectures and assigned reading in English translations of the more important authors. Winter.

538. GREEK AND ROMAN MYTHOLOGY; ITS USE IN ENGLISH LITERATURE.—A systematic study of the classical myths that underlie all literatures. Each student will trace a particular myth through English literature. Those having a knowledge of Latin will investigate Latin sources. Fall.

539. ROMAN PRIVATE LIFE.—Johnston's Private Life of the Romans. Lectures illustrated by stereopticon and supplemented by collateral reading and reports. Spring. Courses 537, 538, 539 presuppose no knowledge of Latin. STRAUSS, HAMBLIN.

Greek

131 (132). *ELEMENTARY GREEK*.—Assuming a fair knowledge of Latin Grammar, the essentials of Greek form and syntax are covered rapidly, with much illustrative reading and comparatively little drill. For students who offer no Greek for entrance. Fall and winter. HAMBLIN.

143. *XENOPHON*.—Selections from *Anabasis*, *Cyropedia*, and *Memorabilia*; practical review of syntax, some prose composition and sight reading. Prerequisite: Greek 131 (132). Spring. HAMBLIN.

543 (544). *GREEK LITERATURE IN TRANSLATION*.—To give students of any literature a knowledge of the form and content of the literature that has influenced most widely other literatures. In the first quarter epic and lyric poetry will be studied; in the second, prose and drama. Lectures, class reading, collateral reading, and frequent tests. Winter and spring. HAMBLIN.

ATHLETICS

PROFESSOR SCHMIDT, MR. GROVE

111. *FOOTBALL*. For freshmen. Ten hours practice a week. Fall. GROVE.

211. *FOOTBALL*. University team, first year. Practice, ten hours a week. Fall. SCHMIDT.

311. *FOOTBALL*. University team, second year. Practice, ten hours a week. Fall. SCHMIDT.

114. *PHYSICAL TRAINING*. Indian clubs, drills, dumbbells, calisthenics, group games. Two hours a week. Fall. SCHMIDT AND GROVE.

112. *BASKETBALL*. For freshmen. Practice, ten hours a week. Winter. GROVE.

212. *BASKETBALL*. University team. Practice, ten hours a week. Winter. SCHMIDT.

113. *BASEBALL*. For freshmen. Practice, ten hours a week. Spring. SCHMIDT.

213. *BASEBALL*. University team. Practice, ten hours a week. Spring. SCHMIDT.

313. *TRACK*. For freshmen. Practice, ten hours a week. Spring. GROVE.

413. *TRACK*. University team. Practice, ten hours a week. Spring. GROVE.

513. *TENNIS*. Practice, five hours a week. SCHMIDT AND GROVE.

BOTANY

PROFESSOR BUCHHOLZ, MR. CRIBBS

Requirements for a Major in Botany: Forty-five credit hours, which should include 341, 522 or 523, 534, 545, 556 or 546, and Plant Pathology 4 hours or Bacteriology 4 hours. Students majoring in Botany are advised to elect some courses in the

related sciences. Certain advanced courses are given only in alternate years. Juniors and seniors who major in Botany are expected to attend the seminar.

141. **ELEMENTARY BOTANY.**—The fundamental structures and physiological processes of higher plants, with special reference to the nature of economic plants. Bacteria, and a few other types of microscopic plants. Lectures and recitations three hours, laboratory three hours. Fall. Fee, \$2.50. BUCHHOLZ, CRIBBS, AND ASSISTANTS.

142 (143). **ELEMENTARY BOTANY.**—The life histories of the great groups of plants in the order of their evolution, affording a brief general survey of the plant kingdom. Special emphasis placed on the disease producing fungi. In the spring the work merges into a systematic course in the classification of seed plants. Field trips taken on Saturdays, or during afternoons as part of the laboratory work, for a study of the local flora. Lectures and recitations three hours, laboratory three hours. Winter and Spring. Fee, \$2.50. BUCHHOLZ, CRIBBS, AND ASSISTANTS.

139. **THE LOCAL FLORA. NATURE STUDY.**—Chiefly the identification of trees, shrubs, and wild flowers, intended for students who have not previously studied the general course. The principal object is to know the common species, how they are identified, and to awaken an interest and appreciation for one's surroundings. Lectures and demonstration two hours, field and laboratory four hours, with field trips on Saturdays. Spring. Fee, \$2.50, including cost of a folding hand magnifier, given to each student. BUCHHOLZ, CRIBBS.

331 (332) or 321 (322) (323). **PLANT MICROTECHNIQUE.**—Practice in the various methods of preparing plant material for microscopic examination. Laboratory eight hours (course 331-2), or six hours (course 321-3). Prerequisite: 141-143. Fee, \$4.00. CRIBBS.

339. **FOREST TREES OF ARKANSAS.**—The identification and distribution of the native forest trees and shrubs found in Arkansas and the Southwest. Lectures one hour, field trips three hours a week, and laboratory. Fall or spring. BUCHHOLZ.

341. **GENETICS.**—The facts and theories of inheritance. The hypotheses concerned with the problems of evolution. Lectures and recitations three hours, laboratory two hours. Prerequisites: 141-143, or Zoology 144-146. Fall and winter. Fee, \$2.50. BUCHHOLZ.

347. **PLANT PHYSIOLOGY.**—The student performs a series of experiments designed to make clear to him in both qualitative and quantitative sense the salient functions. Laboratory eight hours. Prerequisite: 141-143, and Chemistry 141-143. Fall or spring. Fee, \$2.50. CRIBBS.

522. **MORPHOLOGY OF ALGAE.**—A more detailed treatment of algae with respect to their morphology and evolution, with emphasis on the fresh water algae. One lecture and three hours

laboratory. Prerequisite: 141-143. Fall. Fee, \$1.00. BUCHHOLZ.

523. MORPHOLOGY OF BRYOPHYTES.—The liverworts and mosses are studied in greater detail with reference to the important facts of their general morphology and evolution. Lectures one hour, and laboratory three hours. Winter. (Not given in 1924-25.) Fee, \$1.00. BUCHHOLZ.

534. MORPHOLOGY OF PTERIDOPHYTES.—A morphological study of ferns and fern allies with reference to their life histories and the evolution of their vascular structures. Should precede Botany 545. Lectures two hours and laboratory three hours. Prerequisite: 141-143. Fall. Fee, \$1.50. BUCHHOLZ.

545 (or 555). MORPHOLOGY OF SPERMATOPHYTES.—The details of the morphology of seed plants in relation to their evolutionary history. Special attention is given to the study of Gymnosperms, with additional laboratory assignments for those taking the course for an extra hour's credit. Prerequisites: 534. Winter. BUCHHOLZ.

556 (or 546). SYSTEMATIC BOTANY.—The identification and classification of wild and cultivated plants in the vicinity of Fayetteville. The field work will include ecological studies (the Ozark region is especially fine). Correlation of the groups from an evolutionary standpoint. Lecture one hour, laboratory eight to ten hours. Field trips afternoons or Saturdays. Prerequisite: 141-142. Spring. Fee, \$2.50. BUCHHOLZ, CRIBBS.

653. CYTOLOGY.—The cell and the behavior of its component parts during division. The theories attempting to correlate the facts of Mendelian inheritance with cell conditions. Lectures and recitations two hours, laboratory six hours. Prerequisites: 545 and 341. Spring. (Not given 1924-25.) Fee, \$2.50. BUCHHOLZ.

CHEMISTRY

PROFESSOR HALE, ASSOCIATE PROFESSOR WERTHEIM,

ASSISTANT PROFESSOR HUMPHREYS, MR. PORTER

The courses are planned to meet the needs of students who (1) desire knowledge of the science for its cultural value; (2) need it as a foundation for work in medicine and in other sciences; (3) are majoring in chemistry or chemical engineering.

Requirements for a Major in Chemistry: Forty-five term hours, which should include courses 141 (142) (143), 251, 254 (255), 354 (355).

A course leading to the degree of Bachelor of Chemical Engineering is also offered. (See College of Engineering.)

141 (142) (143). GENERAL CHEMISTRY.—An elementary course with a two-fold object: First, to give the student a thorough general knowledge of the principles of chemistry; second, to make chemistry a subject of interest and value, touching so closely everyday life. Lectures, demonstrations, and recitations three hours, laboratory three hours a week. No prerequisite. Fee, \$4.00 each term. HALE, HUMPHREYS, AND ASSISTANTS.

144 (145). GENERAL CHEMISTRY.—The same as the above course, but adapted to the needs of students offering an admission unit in chemistry. Fall and winter. Fee, \$4.00 each term. HUMPHREYS AND ASSISTANTS.

257 (258) (259). GENERAL CHEMISTRY (ENGINEERS).—Prerequisite: Physics 149. Fee, \$5.00 each term. HALE, HUMPHREYS, AND ASSISTANTS.

242. ELEMENTARY ORGANIC CHEMISTRY.—Designed especially for students in Agriculture and Home Economics. Lectures and recitations three hours, laboratory three hours a week. Prerequisite: 141-143. Spring. Fee, \$4.00. WERTHEIM.

251, 241. QUALITATIVE ANALYSIS.—A practical course with lectures and recitations dealing with the theory involved. Lectures and recitations two hours, laboratory nine or six hours a week. Prerequisite: 143. Fall and spring. Fee, \$6.00 and \$5.00, respectively. PORTER.

232. ADVANCED QUALITATIVE ANALYSIS.—Continuation of 251, with lecture and recitation one hour, laboratory six hours a week. Prerequisite: 241. Winter. Fee, \$5.00. PORTER.

254, 244. QUANTITATIVE ANALYSIS.—The theory and practice of the subject, including the most important gravimetric and volumetric methods. Lectures and recitations two hours, laboratory nine or six hours a week. Prerequisite: 241. Fall and winter. Fee, \$6.00 and \$5.00, respectively. PORTER.

255. ADVANCED QUANTITATIVE ANALYSIS.—Continuation of 244 with similar hours. Winter and spring. Fee, \$6.00. PORTER.

331 (332). SPECIAL ORGANIC CHEMISTRY.—A shorter course for pre-medical students. Lectures and recitations two hours, laboratory three hours a week. Prerequisite: 241. Fall and winter. Fee, \$4.00 each term. WERTHEIM.

333. SPECIAL ORGANIC CHEMISTRY.—The work presented is such that 331 (332), 333 approximately equal 354 (355). Lectures, laboratory and fees as in 332. Prerequisite: 332. Spring. WERTHEIM.

354 (355). ORGANIC CHEMISTRY.—Theory of organic reactions and laboratory work illustrating the practical applications. Lectures and recitations three hours, laboratory six hours a week. Prerequisite: 241. Fall and winter. Fee, \$5.00 each term. WERTHEIM.

359. INDUSTRIAL CHEMISTRY.—The practical application of chemistry to industry, special attention being given to actual or possible manufacturing establishments in this state. One or more inspection trips are taken. Lectures and recitations five hours a week. Prerequisites: 254, 354. Spring. HALE.

434. HISTORY OF CHEMISTRY.—The development of chemistry, intended to furnish a helpful basis for the present day science. Lectures and recitations three hours a week. Prerequisites: 254, 354. Fall. (Not given in 1924-25.) HALE.

435 (436). ADVANCED INORGANIC CHEMISTRY.—The underlying facts and principles are studied in some detail. Lectures

and recitations three hours a week. Prerequisites: 254, 354. Winter and spring. (Not given in 1924-25.) HALE.

437 (438). ADVANCED ORGANIC CHEMISTRY.—A more thorough study of certain topics for advanced students. Lectures and recitations three hours a week. Prerequisites: 254, 355. Spring. WERTHEIM.

449. ORGANIC QUALITATIVE ANALYSIS.—Analysis and identification of simple organic compounds by the "group" or "class reaction" method. A paper on some general reaction will be presented by each student. Reading knowledge of German is desirable. Lectures two hours, laboratory six hours a week. Prerequisites: 241, 355. Fall. Fee, \$5.00. WERTHEIM.

451 (452). PHYSICAL CHEMISTRY.—The general principles of natural science with especial reference to the principles, theories and generalizations of chemistry. The method of attacking a problem, the apparatus used, and a study of certain fundamental principles are covered in the laboratory work. Lectures and recitations three hours, laboratory six hours a week. Prerequisite: 245, Physics. Winter and spring. Fee, \$5.00 each term. PORTER.

522, 523. INORGANIC PREPARATIONS.—Chiefly laboratory work with an insistence upon the principles and economic value of the process. Six hours a week. Prerequisite: 244. Winter. Fee, \$5.00 each term. HUMPHREYS.

524, 525. ORGANIC PREPARATIONS.—Similar to 522, 523. Prerequisites: 241, 355. Spring. Fee, \$5.00 each term. WERTHEIM.

531. AMERICAN CHEMISTRY.—The fundamental importance of chemistry in our modern life and the real contribution the United States has made and is making to chemistry. A non-technical course, intended to be of cultural value. Lectures and recitations three hours a week. Spring. HALE.

533. METALLURGY.—Lectures and recitations treating of principles and practice three hours a week. Prerequisite: 241. Winter. (Not given in 1924-25.) PORTER.

537. SPECIAL PHYSICAL CHEMISTRY.—A shorter course for pre-medical students. Lectures and recitations three hours a week. Prerequisites: 244, 354. Spring. PORTER.

631-639. SPECIAL METHODS IN QUANTITATIVE ANALYSIS.—Sanitary Water Analysis, Petroleum Technology, Electro-Analysis, Ultimate Organic Analysis, Coal and Coke Analysis, Analysis of Road Materials, Analysis of Certain Rocks, etc. Chiefly laboratory work with conferences. The amount of credit to be arranged with the individual student before he registers for the course. Prerequisite: 244. Fee, \$6.00 each term. Each term as demanded. HALE, WERTHEIM, PORTER.

816, 817. CHEMICAL SEMINAR.—Members of the faculty, graduates, and advanced students meet weekly for the discussion of articles in the current chemical literature. Prerequisites: 244, 354. Winter. HALE.

831, 832. CHEMICAL RESEARCH.—Problems in research for

graduates or others considered capable of successfully attacking them. Credit will vary in accordance with the amount of work done. Each term as demanded. HALE, WERTHEIM.

ECONOMICS AND SOCIOLOGY

ASSOCIATE PROFESSOR WATERMAN, ASSOCIATE PROFESSOR
JAMISON, MR. MOORE

The primary purpose of the courses is to assist the student in understanding the functions, the purposes, and the significance of our complex economic and social institutions.

Requirements for a Major in Economics: Forty-five credit hours, including courses 540 (541). Students in the College of Education preparing to teach commercial subjects may complete a major in this department with courses 540 (541), 546 (547), 647, 730 (731), and nineteen hours of electives.

540 (541). *PRINCIPLES OF ECONOMICS.*—An introduction to the fundamental economic principles underlying the production, valuation, distribution, and consumption of economic goods. Prerequisite: Sophomore standing. Fall and winter. WATERMAN, JAMISON, AND MOORE.

530. *BUSINESS ORGANIZATION AND MANAGEMENT.*—A brief review of the successive forms of business organization, with the causes of such development and a study of modern economic conditions as applied to business; the development and control of large business units. Prerequisite: 540 (541). Fall. JAMISON.

522. *CREDITS AND COLLECTIONS.*—Mercantile credit, sources and analysis of credit information; credit insurance; the Bankruptcy Acts; collection agencies and collection departments. Prerequisite: 540 (541). Spring. WATERMAN.

545. *TRANSPORTATION.*—Transportation facilities as determinants of market situations; the economics of the good roads movement; the cost and service of inland waterways, steam and electric railways; ocean ports and carriers. Prerequisite: 540 (541). Spring. JAMISON.

546 (547). *COMMERCIAL LAW.*—The laws that govern business transactions such as contracts, agency, negotiable instruments, bailments, insurance, sales, corporations, and the transfer of real property. Prerequisite: None. Fall and winter. (Engineering students need not take 547.) WATERMAN.

630. *ECONOMIC STATISTICS.*—The theory and practice of statistics in economic and social problems; sources, and methods for collecting data bearing on prices, production, population, and other economic and social problems; means of correlation and interpretation of such data. Prerequisite: 540 (541). Spring. MOORE.

633. *RURAL SOCIOLOGY.*—The problems and conditions of farming: Land, rural population, farm labor; the school, the church, and other rural institutions; the effects of occupation and isolation; vice, crime, and poverty in the country; the relation of the

farmer to other economic classes. Prerequisite: 640 (641). Spring. JAMISON.

640. PRINCIPLES OF SOCIOLOGY.—The development of social institutions from primitive to modern times. The relationships existing among men; the possibilities of betterment. Prerequisite: Junior standing. Fall. JAMISON.

641. PROBLEMS OF SOCIAL BETTERMENT.—An examination into the nature, causes, and treatment of selected social problems, discussed in the light of modern sociological thought. Prerequisite: 640. Winter. JAMISON.

645. BANKING PRINCIPLES.—The historical development of our present banking system, with particular emphasis on relations existing among national and state banks and the Federal Reserve system. Prerequisite: 540 (541). Fall. MOORE.

647. CORPORATION FINANCE.—Organization of the corporation; the problem of proper capitalization; the financial plan, corporate securities, management of corporate income; receivership, and reorganization. Prerequisite: 540 (541). Spring. WATERMAN.

648. SELLING AND MARKETING.—Advertising plans, campaigns, and media; analysis of market and product; distribution of advertising costs; the organization, operation, and function of marketing agencies. Not open to students having credit in 332. Prerequisite: 540-541. Winter. JAMISON.

649. INDUSTRIAL MANAGEMENT.—Location, arrangement, and equipment of industrial plants; methods of departmental organization; control of branches and agencies; securing and interpreting industrial data. Prerequisite: None. Winter. MOORE.

730 (731). ELEMENTARY ACCOUNTING.—The theory and practice of double-entry bookkeeping, illustrating the uses of the fundamental books, the interpretation and classification of accounts, preparation and analysis of statements. Prerequisite: 540 (541) or concurrent registration. Fall and Winter. MOORE.

732. ADVANCED ACCOUNTING.—Partnership and corporation accounts; treatment of capital stock accounts, no par value stock, capitalization, amortization, depreciation. Prerequisite: 730 (731). Spring. MOORE.

741. GOVERNMENT REGULATION OF INDUSTRY.—The problems created by the growth of large business; pools, trusts, holding companies, the Sherman and Clayton Acts, and subsequent state and federal legislation; the Federal Trade Commission and the enlargement of the field of government control. Prerequisite: 540 (541). Fall. WATERMAN.

742. PUBLIC FINANCE.—The theories and methods of raising and distributing public revenue as applying to Federal, State, and local fiscal systems; special study of Arkansas tax problems. Prerequisite: 540 (541). Spring. MOORE.

748. INSURANCE.—The principles underlying insurance; the chief kinds of insurance; types of policies and contracts; the

regulation of insurance. Prerequisite: 540 (541). Spring. JAMISON.

331. AGRICULTURAL ECONOMICS.—The principles underlying the organization of agriculture as a science with a view to profit for the farmer and benefit to the nation. Includes a discussion of credit needs, problems of farm labor, tenancy, and rent; land utilization, and prices. Prerequisite: Sophomore standing. Fall. JAMISON.

332. AGRICULTURAL MARKETING.—The services, methods, and agencies involved in moving agricultural products from the primary producer to the ultimate consumer; including co-operation and federation. Not open to students having credit in Economics 648. Prerequisite: 331. Winter. JAMISON.

ENGLISH

PROFESSOR JONES, PROFESSOR JORDAN, ASSOCIATE PROFESSOR HASTINGS, ASSOCIATE PROFESSOR SHEEHAN, ASSISTANT PROFESSOR HOLCOMBE, MISS DAVIS, MR. STORY, MR. HUNT, MR. MCCOLLEY, MRS. HASTINGS

The aim of the course is (1) to train students to write English clearly and correctly, and (2) to teach them to understand and appreciate the best in literature. Every course in composition, therefore, is accompanied by a considerable amount of required readings, and every course in literature requires some written criticism.

Requirements for a Major in English: Fifty-four term hours, including courses 131 (132) (133), and 531 (532) (533) [or 144 (145) (146)]; 521 (522) (523) or 547, or Journalism 631 (632) (633); and two from the following three: 631 (632); 643; 644 (645). Students who expect to be recommended for teaching position in secondary schools should complete at least forty-five term hours in English.

Students taking up journalism should consult the head of the department at the beginning of the sophomore year.

131 (132) (133). RHETORIC AND COMPOSITION.—Recitations, themes, conferences, and required reading, three hours a week. Some practice in argumentation, description, and narration, but the chief drill is in expository writing. *Required of all freshmen except those who are admitted to English 144-6.* JONES, HASTINGS, HOLCOMBE, DAVIS, STORY, MCCOLLEY, HUNT, MRS. HASTINGS.

144 (145) (146). COMPOSITION AND LITERATURE.—Intended for those students who have shown marked proficiency in English in high school. Consent of the instructor is required. This course may be substituted for English 531 (532) (533) as a prerequisite to advanced courses. JONES.

221 (222) (223). ENGLISH COMPOSITION.—Required of all students in the College of Arts and Sciences who do not make a grade higher than "D" in Freshman English. Consists largely

of practice in writing and intensive drill in correct usage of spoken and written English. JONES.

331 (332) (333). ENGLISH COMPOSITION.—Technical writing, with some study of scientific and technical articles of various kinds. Open only to students in the Colleges of Agriculture and Engineering. Prerequisite: 131-3. HASTINGS, HUNT.

521 (522) (523). EXPOSITION.—The principles of expository writing. Themes, assigned readings, and conferences. Prerequisite: 131-133. HOLCOMBE.

531 (532) (533). ENGLISH LITERATURE IN OUTLINE.—The life and literature of the English people from Anglo-Saxon times to the present. Lectures, study of the works of representative authors, reports, critical essays. Prerequisite: 131-133. JONES, JORDAN, HASTINGS, STORY, MCCOLLEY, DAVIS.

534 (535) (536). AMERICAN LITERATURE.—A general course, with intensive study of some of the major writers. Prerequisite: 531-3. HASTINGS.

537 (538) (539). ENGLISH PROSE FICTION.—Critical and historical study of prose fiction from its beginnings to the present. Prerequisite: 531-3. HASTINGS.

541. BRITISH ROMANTIC POETS OF THE NINETEENTH CENTURY.—Chiefly a study of the poetry of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. Prerequisite: 531-3. Fall. JORDAN.

542. TENNYSON AND BROWNING.—Prerequisite: 531-3. Winter. JORDAN.

543. NINETEENTH CENTURY ESSAYISTS.—The principal essayists studied are Lamb, Hazlitt, DeQuincey, Macaulay, Carlyle, Ruskin, Arnold, Newman, Pater, and Stevenson. Prerequisite: 531-3. Spring. JORDAN.

544. EIGHTEENTH CENTURY LITERATURE.—Prerequisite: 531-3. (Not given in 1924-25.)

545. THE SHORT STORY.—A course in reading, criticizing, and writing narratives and short stories. Prerequisite: 531-3. Spring. MCCOLLEY.

546. LYRIC POETRY.—The greatest examples of lyric poetry in English and other literatures. Prerequisite: 531-3. Spring. HASTINGS.

547. THE CONTEMPORARY DRAMA.—Recent plays in Europe and America. Prerequisite: 531-3. Spring. HOLCOMBE.

548. THE DRAMA IN ENGLAND, 1660-1880. Prerequisite: 531-3. Fall. JORDAN.

631 (632) (633). MIDDLE ENGLISH.—A study of Chaucer, followed by a general study of other Middle English writers. Prerequisite: 531-3. HOLCOMBE.

643. ANGLO-SAXON.—A study of Anglo-Saxon grammar, with some reading of West Saxon prose. Prerequisite: 531-3. Spring. JONES.

644, 645. SHAKESPEARE.—A critical study of a few plays; lectures, and recitations. Prerequisite: 531-3. Fall and winter. JONES.

646. THE DRAMA IN ENGLAND, 1580-1642.—The Elizabethan dramatists, exclusive of Shakespeare. Prerequisite: 531-3. Spring. JORDAN.

647. LITERARY CRITICISM.—The more generally accepted principles of literary criticism and their application to the chief types of literature. Consent of instructor necessary. Lectures and recitations. (Not given in 1924-25.)

648. COMPARATIVE LITERATURE.—General survey of some of the more important works of Continental writers and of literary tendencies since the Renaissance, with stress upon such as have been influential in England. Consent of instructor necessary. Spring. JONES.

Journalism

537 (538) (539). NEWSPAPER WRITING.—A study of news interest and the technique of news-writing. Adapted to those who wish either to make journalism their profession or to gain facility in writing effective English. Made practical by carrying on class work in connection with daily newspaper and student publications. Prerequisite: English 131-133. Fee, \$1.00 each term. SHEEHAN.

621 (622) (623). NEWSPAPER EDITING.—Editing copy, correcting proof, writing headlines, making up, rewriting, and other details of editing; the organization and methods of local, state, and national news gathering. Prerequisite: Journalism 537-539. Alternates with Journalism 631. (Not given in 1925-26.) Fee, \$1.00 each term. SHEEHAN.

631 (632) (633). SPECIAL FEATURE ARTICLES AND EDITORIALS.—The special feature article in newspaper and magazine is studied and analyzed as a form, and practice in writing is given with a view to publication. The same is done with the editorial. Prerequisite: Journalism 537-9. Alternates with Journalism 621-3. (Not given in 1924-25.) Fee, \$1.00 each term. SHEEHAN.

FINE ARTS

MR. TOVEY, MISS GALBRAITH, MISS GWATHMEY, MISS REQUA, MISS GILLESPIE, MR. MITCHELL, MR. HANSARD, MR. ROYER

The department offers courses in the theory of music, piano, violin, voice, art, and the history of music. A statement of the requirements for admission will be found on previous pages for both regular and special students.

Courses in music leading to a diploma or a degree are outlined on previous pages.

Six term hours of credit toward the Bachelor of Arts degree will be allowed for work in music, of which not more than three hours shall be allowed for courses in piano, violin, and voice. No credit is allowed unless the student takes at least two lessons a week for a full year.

Credit for pipe organ will be allowed toward the A. B. degree and in the College of Education for the first year's work.

Special Fees

Piano, or Organ, with Director, a term.....	\$33.50
Voice, a term.....	33.50
Organ, or Piano, with Assistant, a term.....	26.50
Violin, a term.....	26.50
Study of Appreciation, a term.....	4.00
Harmony, in class, a term.....	6.00
Form and analysis.....	6.00
History of Music, in class, a term.....	6.00
Counterpoint, a term.....	6.00
Piano Practice, one hour daily, a term.....	3.50
Diploma fee, for completion of the special Diploma course in music.....	5.00
Choral Music.....	4.00

Theory of Music

111 (112) (113). HARMONY.—One hour a week. MITCHELL.	
211 (212) (213). ADVANCED HARMONY.—One hour a week. MITCHELL.	
114 (115) (116). HISTORY OF MUSIC.—One hour a week. TOVEY.	
117 (118) (119). APPRECIATION I.—One hour a week. TOVEY.	
311 (312) (313). COUNTERPOINT.—One hour a week. TOVEY.	
217 (218) (219). APPRECIATION II.—One hour a week. To- VEY.	
317 (318) (319). APPRECIATION III.—One hour a week. To- VEY.	
324 (325) (326). FORM AND ANALYSIS. TOVEY.	
424 (425) (426). ENSEMBLE MUSIC. HANSARD.	
427 (428) (429). CANON AND FUGUE. TOVEY.	
524 (525) (526). SELECTION AND INTERPRETATION. TOVEY.	
528, 529. CHORAL MUSIC. TOVEY.	

Piano

The aim is to develop technical control and the power of musical conception as adapted to artistic ends.

PREPARATORY GRADE. TOVEY AND MITCHELL.

INTERMEDIATE GRADE. TOVEY AND MITCHELL.

ADVANCED GRADE. TOVEY AND MITCHELL.

ACCOMPANIMENT. TOVEY.

THE TEACHING OF MUSIC.—For students who expect to teach music. TOVEY.

Violin

The instruction is designed to develop correct technique. In addition to the studies, the student is given compositions of standard composers. HANSARD.

Pipe Organ

This course prepares for church playing and concert work.
TOVEY AND GILLESPIE.

Voice

The purpose is the correct production of tone and the building and development of the voice according to the old Italian method. Special stress is laid on breath control, accuracy of tone, distinct articulation, the study of intervals, scale building, sight reading, and phrasing. ROYER.

PUBLIC SCHOOL MUSIC, AND SUPERVISORS' COURSE. ROYER.

Art

This department seeks to lay the foundation for a thorough art education. Its purpose is to awaken in the student an appreciation of beauty and to cultivate self expression in form and color. The advantages offered enable both elementary and advanced students to pursue the study of art while taking a college course. Twenty-seven term hours of credit toward the Bachelor of Arts degree will be allowed for work in art. The department offers courses in fine and applied arts, normal art, and the history of art.

117, 118, 119. SKETCH CLASS.—Drawing from pose. Two hours a week. GALBRAITH.

121, 122, 123. ELEMENTARY FREEHAND DRAWING.—Drawing from still life, casts, flowers; perspective. Four hours a week. GALBRAITH.

124 (125) (126). ELEMENTARY DESIGN.—Principles of design in line, value, and color. Three hours lecture, two hours laboratory a week. REQUA AND GWATHMEY.

127 (128) (129). ELEMENTARY NORMAL ART.—The teaching of art in the grades. Planning courses of study. Observation. Practice teaching. Four hours a week. REQUA.

221 (222) 223. COSTUME DESIGN.—Concerned first with the essentials of taste in dress; second, with the principles of design in form and color as they relate to clothes; and third, with the study of the figure and its relation to clothes design. REQUA.

226. ARTS AND CRAFTS.—Applied design problems in basketry, leather, etc. Suitable for work in high schools. Prerequisite: 126 or 129. Spring. Fee, \$1.00. GALBRAITH.

233 (234) (235). HISTORY OF ART.—A brief study of the history of painting, architecture, and sculpture. Lectures illustrated by prints and lantern slides, together with text and reference reading. Three hours a week. GALBRAITH.

321, 322, 323. COMMERCIAL DESIGN.—The development of the advertising idea as it relates to the selling qualities; its adaptations to various types of commodities; the technique of composition, drawing, color, and lettering. GWATHMEY.

441 (442). HOUSE DESIGNING AND FURNISHING.—Simple floor plans for houses, the intelligent planning of construction in various materials, the rendering of drawings of trim, openings, paneling, chimney pieces, and other features. Color harmonies, and furnishings in interiors. Fall and winter. GWATHMEY.

443. CIVIC ART.—The outside of the house, its color, plan of walks, gardens, and lawn. Special attention is given to civic, co-operative work. Spring. GWATHMEY.

521, 522, 523. FREEHAND DRAWING.—Drawing and painting from still life and costume model. Four hours a week. Prerequisite: 121-3. GALBRAITH.

627 (628) (629). ADVANCED NORMAL ART.—The teaching of art in high schools. Four hours a week. Prerequisite: 127-9. GALBRAITH.

GEOLOGY

PROFESSOR CADY AND MR. CRONEIS

Requirements for a Major in Geology: Forty-five term hours; in addition either English 531, 532, or 521, 522, 523; twelve term hours in each of the following subjects: Chemistry, Botany or Zoology, Mathematics, Astronomy or Physics or Sociology; six additional term hours in any two of the subjects listed above or twelve term hours in any one of those subjects. Civil Engineering 225 and 231 will be counted toward the requirements for a major.

141. PRINCIPLES OF GEOGRAPHY.—A course dealing with the physical background of geography, including the movements and work of the atmosphere, the physiographic features of the earth and the relation of physical environment to man's activities. Restricted to freshmen and sophomores. No prerequisites. Three recitations and three hours of laboratory. Fall and winter. Fee, \$1.50. CRONEIS.

333. PRINCIPLES OF GEOGRAPHY.—Same as 141 and meeting with 141. Open only to juniors and seniors. No prerequisites. Three recitations and three hours of laboratory. Fall and winter. Fee, \$1.50. CRONEIS.

142, 143. INTRODUCTORY GEOLOGY.—A short course in General Geology for students who have not had Chemistry. The first term deals with geologic processes, the second term with historical Geology. Three recitations and three hours of laboratory. Prerequisites: 141; 142 is prerequisite to 143; 142 winter and spring; 143 spring. CRONEIS.

147, 148, (149). GENERAL GEOLOGY.—The beginning course for students expecting to major in Geology. The Geology requirement for the degree of Bachelor of Science. This course may be substituted for the Geology requirement in the College of Agriculture (Geology 230). Geology 147 meets the Geology requirement in the course of Civil Engineering. Only students in Civil Engineering will be permitted to divide the course, and receive credit for less than three terms of work. Three recitations and

three hours of laboratory. Prerequisite: 145 or 142, or one year accredited high school chemistry, or completion of or registration for Chemistry 141 (142) (143). Fee, \$1.50 each term. CADY.

230. AGRICULTURAL GEOLOGY.—A brief course in rock minerals, rocks, rock weathering and soil formation, and rock structure, with a brief outline of geologic history. Primarily for students in the College of Agriculture, to meet the Geology requirement for graduation. Not open to students who have had 148 or 149 or are taking 147. Two recitations and three hours of laboratory. Prerequisite: Chemistry 143. Fall. Fee, \$1.50. CADY.

231. ANTHROPOLOGY.—Man's place in nature, his early history, and racial characteristics. Three recitations. Prerequisites: 145 or 142 or 149 or 230. Fall 1924-25. Spring 1925-26. CRONEIS.

234. BLOW PIPE ANALYSIS.—One hour lecture, six hours of laboratory. Prerequisites: Chemistry 241 or 251, or Geology 149 and Chemistry 143. Given 1924-25 and alternate years. Winter. Fee, \$5.00. CADY.

241. MINERALS AND THEIR CRYSTAL FORMS.—A study of elementary crystallography and mineralogy of the common minerals of ores and rocks. About 75 minerals will be studied. Two recitations and six hours of laboratory. Prerequisite 149, or 146 and registration for 149. Given in 1924-25 and alternate years. Fall. Fee, \$2.00. CADY.

245. ELEMENTARY PETROLOGY.—Study and identification of the common rocks. Two recitations and six hours of laboratory. Prerequisite: Geology 241. Given in 1924-25 and alternate years. Spring. Fee, \$2.00. CADY.

243. HISTORICAL GEOLOGY.—Advanced course in historical Geology concerned particularly with the history of the Paleozoic Era. Prerequisites: 147 or 143 or 149. Three recitations and three hours of laboratory. Winter. Fee, \$1.50. CRONEIS.

244. GEOLOGY OF OIL AND GAS.—Three recitations and three hours of laboratory. Spring. Fee, \$1.50. CRONEIS.

246. PHYSIOGRAPHY OF THE UNITED STATES.—The typical land forms in the United States, and their origin. Regional geology and physiography. Prerequisites: 146 or 143 or 149 or 230. Given in 1924-25 and alternate years. Winter. Fee, \$1.50. CADY.

247. GEOGRAPHY OF SOUTH AMERICA.—A regional study of the continent and analysis of man's adaptations to the various environments. Three recitations and three hours of laboratory. Prerequisites: 145, or 142, or 147. Given in 1925-26 and alternate years. Fall. Fee, \$1.50. CADY.

248. GEOGRAPHY OF ASIA.—Regional and human geography of Asia. Prerequisites: 145, or 142, or 147. Given in 1925-26 and alternate years. Winter. CADY.

346. STRUCTURAL GEOLOGY.—Field and laboratory practice in faults and folds and other structural relationships existing in the earth's crust. Two recitations and six hours of laboratory.

Prerequisite: 149. Given in 1925-26 and alternate years. Spring. CADY.

321, 331, or 341. FIELD GEOLOGY.—Field and laboratory practice in the construction of geologic maps and sections. Equivalent to three hours of laboratory work for each one hour credit. Prerequisites: Civil Engineering 225 and 231. Juniors and seniors in Civil Engineering. All others, 149. Spring. Fee, \$2.00. CADY.

344. GEOLOGY OF NON-METALLIC MATERIALS.—Three recitations and three hours of laboratory. Prerequisite: 149. Given in 1925-26 and alternate years. Fall. Fee, \$1.50. CRONEIS.

345. GEOLOGY OF METALLIC MATERIALS.—Three recitations and three hours of laboratory. Prerequisite: 149. Given in 1925-26 and alternate years. Winter. Fee, \$1.50. CADY.

GERMAN

PROFESSOR LUSSKY

The aim of the work is primarily to acquaint the student with the German language and literature as a means of culture. The practical value of a knowledge of German is, however, not neglected, as is indicated by the courses in scientific reading and composition. The excellent collection of German books in the University library offers adequate facilities for advanced work in literature. Graduate courses will be given as called for.

Requirements for a Major in German: Forty-five term hours. Students preparing to teach German should consult the head of the department as early as possible.

141 (142) (143). ELEMENTARY GERMAN.—Grammar, composition, and the reading of easy prose and poetry. No prerequisite. LUSSKY.

231 (232) (233). LITERARY AND SCIENTIFIC GERMAN.—Reading and discussion of works of a literary and scientific nature. Prerequisite: 141-143. LUSSKY.

521 (522) (523). INTRODUCTORY COMPOSITION.—A thorough review of grammar, and practice in the art of composition. Prerequisite: 141-143. LUSSKY.

631 (632) (633). GOETHE AND SCHILLER.—The lives and selected works of these authors; collateral reading and reports. Prerequisites: 231-233, or 521-523. LUSSKY.

HISTORY AND POLITICAL SCIENCE

PROFESSOR D. Y. THOMAS, ASSISTANT PROFESSOR GRONERT

The courses are designed to form part of a general cultural education. They are essential to a thorough preparation for law, journalism, politics, ministry, or any other public calling. Course 131 (132) (133) is foundation work and should be taken in the freshman year.

Requirements for a Major in History: Forty-five credit hours in history and political science. Students expecting to teach his-

tory in the secondary schools should complete at least twenty-seven credit hours in the department. Course 131 (132) (133) should be the basis for this work, and courses 531-536 should follow. At least nine hours should be taken in economics and sociology. Students who expect to pursue graduate work should take courses 633, 634, 635, or 636, 637, 638, and two years of a modern language.

History

131 (132) (133). INTRODUCTION TO MODERN AND CONTEMPORARY CIVILIZATION.—The chief content of this course is history since 1500 with most emphasis on the period since 1815. Emphasis will be laid on economic, cultural, and political developments in an effort to help the student understand the civilization of today. For freshmen. THOMAS AND GRONERT.

531 (532) (533). HISTORY OF THE UNITED STATES SINCE 1776.—A general course, dealing with political (including international), economic, and social questions. Some attention given to geography in its bearing upon the development of our history. Prerequisite: 131-133, or sophomore standing. THOMAS.

534 (535) (536). HISTORY OF ENGLAND TO 1923.—A general course treating of the political, religious, literary, and economic activities of the English people. The origin and growth of the more important institutions, such as kingship, parliament, courts, and the church; the struggle for democratic government, especially the great reforms of the nineteenth and twentieth centuries, and the movement for social betterment. A brief survey of the British Empire. Lectures and recitations throughout the year. Not open to freshmen. GRONERT.

537. FRENCH REVOLUTION AND THE NAPOLEONIC ERA.—France on the eve of the Revolution; French political philosophers; causes and events of the Revolution; and the wars of Napoleon. Prerequisite: 131-133, or sophomore standing. Fall. GRONERT.

559. HISTORY OF HISPANIC AMERICA SINCE 1800.—A brief survey of the Spanish and Portuguese colonial systems; a careful study of the wars of emancipation; the rise and development of Hispanic-American nations; the relations of these with foreign countries; and the development of Pan-Americanism. Special attention given to the Monroe, Calvo, and Drago doctrines. Prerequisite: 131-133, or junior standing. Spring. GRONERT.

631. HISTORY OF GREECE.—The history and institutions of the Greeks. A general knowledge of the subject presumed. Prerequisite: 131-133, or sophomore standing. Fall.

632. HISTORY OF ROME.—The history and institutions of the Romans. A general knowledge of the subjects presumed. Prerequisite: 131-133, or sophomore standing. Winter.

633. THE UNITED STATES, 1763-1789.—A study of the colonies in their relation to the mother country, with special reference to the attempt at imperial taxation. Particular attention will be given to the literature of the period, as preparing the colonies

for separation. The steps leading to the Declaration of Independence, the failure of the Confederation, and the formation and adoption of the Constitution will be studied in detail. For juniors and seniors. Fall. THOMAS.

634. THE CIVIL WAR AND RECONSTRUCTION.—The first part of this course will deal mainly with the events leading up to the war; the second part with the political, social, and economic phases of Reconstruction. For juniors and seniors. Winter. THOMAS.

635. INTERNATIONAL RELATIONS.—Colonial expansion and its relation to economic development, international rivalries, the Great War, and subsequent attempts at adjustment. Prerequisite: Nine hours of history, or junior standing. Spring. THOMAS.

636 (637) (638). HISTORY OF THE BRITISH EMPIRE.—The period of the formation of the English nation; then the rise and growth of the British Empire. A detailed study of the establishment and growth of the British colonies and dependencies in the West Indies, the Americas, Africa, Asia, and Oceania; the gradual development of a British imperial policy; and the British colonial administrative system. Especial attention paid to the struggle for the democratization of English institutions, and social legislation in the self-governing colonies of the Empire. Prerequisites: 131-133, and six more hours in history, or junior or senior standing. (Not offered in 1924-25.) GRONERT.

639. HISTORY OF THE PACIFIC AND THE FAR EAST.—The islands of the Pacific and the countries of eastern Asia, particularly China and Japan, and their relations to the western nations. Spring. GRONERT.

731. AMERICAN DIPLOMACY.—Covers the entire period of the history of the United States, with special attention to the diplomacy of the Revolution and of the second war with England, the Monroe Doctrine and subsequent relations with Latin America, arbitration, Asiatic questions, the Great War, and the peace settlement. Prerequisite: fifteen hours of history or political science. Spring. THOMAS.

732. RACE RELATIONS.—The geographical distribution of the races of the world; the present situation of the white race as the dominant race; the history of the negro in America; and the present day aspect of the race (Japanese as well as negro) question in relation to church, education, sanitation, and civil and economic justice. Open only to juniors and seniors. Spring. THOMAS.

733. RENAISSANCE AND REFORMATION.—A study of the artistic and literary phases of the period known as the Renaissance, followed by a brief consideration of the social and religious phases of the Protestant Reformation. Prerequisite: 131-133, or sophomore standing. Winter. GRONERT.

735. FOREIGN RELATIONS OF THE UNITED STATES.—A study of

such questions as the Monroe Doctrine, the open door, arbitration, and settlement of the post-war problems. Spring. THOMAS.

Political Science

531. AMERICAN STATE AND LOCAL GOVERNMENTS.—A brief review of the development of American state constitutions; the structure and workings of state governments as organized today, and some of the practical problems now before the states; a brief survey of county and municipal government. Prerequisite: 131-133, or sophomore standing. Winter. THOMAS.

532. AMERICAN NATIONAL GOVERNMENT.—A basic course for more advanced work in government. The organization of our national government and the work of co-ordinate branches, but most emphasis laid upon the work of administration. Prerequisite: 131-133, or sophomore standing. Spring. THOMAS.

533. POLITICAL PARTIES.—The origin and development of political parties in the United States and their present organization and activities. Prerequisite: nine hours of history, or sophomore standing. Fall. THOMAS.

534. COMPARATIVE GOVERNMENT.—The structure and powers of the national governments of the United States and of the leading European nations. Special attention given to the place of the federal system in public law. Open only to juniors and seniors. Fall. THOMAS.

535. INTERNATIONAL LAW.—The development of international law and the usages and principles now considered binding on civilized nations. Open only to juniors and seniors. Considerable outside reading. Winter. THOMAS.

MATHEMATICS AND ASTRONOMY

PROFESSOR DROKE, PROFESSORS HARDING, EMERITUS ASSOCIATE
PROFESSOR DUNN, ASSISTANT PROFESSOR CAMPBELL,
MR. W. H. TAYLOR, MR. F. E. TAYLOR

The courses are designed to meet the requirements of: (1) students in engineering; (2) students who expect to teach mathematics; and (3) students who are interested in mathematics for the sake of the subject itself.

Requirements for a Major in Mathematics: Fifty-one credit hours, including 253, and twenty-one hours to be selected by the major professor. Students in Engineering will find 536 (537) very helpful. Students preparing to teach mathematics in the secondary schools should complete at least 534 (535), and Astronomy 231 (232) (233). They should also take courses in the teaching of secondary mathematics and in the history of mathematics. These courses will be offered when there is a demand for them.

Note.—Students who enter the University in the fall and who present only one entrance unit in algebra should pursue the sequence, 150, 151, 152, in the freshman year, and 153, 251, 252, in the sophomore year, and 253 in the junior year, fall. Students who present one and one-half entrance units of algebra should pursue the sequence, 151, 152, 153, in the freshman year, and 251, 252, 253, in the sophomore year.

Mathematics

150. ELEMENTARY ALGEBRA.—A collegiate treatment of advanced high school algebra, designed for students who offer only one unit in algebra for entrance. May be taken by students in the College of Engineering and of Agriculture to remove entrance deficiencies. Five hours a week. Fall. F. E. TAYLOR.

151. COLLEGE ALGEBRA.—For students in any one of the colleges who offer at least one and one-half units in algebra for entrance. Fall and winter. DROKE, CAMPBELL, TAYLOR.

111 (112) (113). SOLID GEOMETRY.—For students in the College of Engineering. W. H. TAYLOR.

152. PLANE TRIGONOMETRY.—For students in any one of the colleges who offer one unit of plane geometry for entrance. Prerequisite: 151. Winter and spring. DROKE, CAMPBELL, TAYLOR.

153. ANALYTIC GEOMETRY.—For students in the Colleges of Arts and Sciences, of Engineering, and of Education. Prerequisite: 151, 152. Spring and fall. DROKE, CAMPBELL, TAYLOR.

251 (252) (253). DIFFERENTIAL AND INTEGRAL CALCULUS.—Prerequisite: 153. DROKE, CAMPBELL, TAYLOR.

631 (632) (633). ADVANCED COLLEGE ALGEBRA.—Prerequisite: 151. F. E. TAYLOR.

534 (535). ADVANCED ANALYTIC GEOMETRY.—A continuation of 153, required of students who major in mathematics. Fall and winter. CAMPBELL.

536 (537). DIFFERENTIAL EQUATIONS.—Prerequisite: 253. Winter and spring. DROKE.

131 (132). MATHEMATICS OF FINANCE.—The relation of interest to long-time investments, the cumulative effect of compound interest, and its relation to annuity, to insurance, to the evaluation and amortization of securities, to the creation of sinking funds, and to funds such as those of building and loan associations. Prerequisite: five hours of college mathematics. Winter and spring. W. H. TAYLOR.

130. ALGEBRA AND PLANE TRIGONOMETRY.—For students in the College of Agriculture, including a study of factoring, fractional equations, theory of exponents, radicals, and quadratic equations; trigonometric functions, functions of multiple and submultiple, angles, and solution of triangles. Fall. W. H. TAYLOR.

531. HISTORY OF MATHEMATICS.—Prerequisite: Sophomore standing. Spring. DROKE.

133. SOLID GEOMETRY.—Fall. F. E. TAYLOR.

134. SPHERICAL GEOMETRY AND SPHERICAL TRIGONOMETRY.—Prerequisite: 133. Winter. F. E. TAYLOR.

Astronomy

231 (232) (233). DESCRIPTIVE ASTRONOMY.—Lectures and recitations three hours a week, with occasional meeting at night for observation. HARDING.

MILITARY ART

MAJOR SMITH, CAPTAIN DILL, LIEUTENANT MULLETT,
SERGEANT GREATHOUSE

Under the provisions of the Act of Congress, approved July 2, 1862, all male students in their freshmen and sophomore years are required to take military art. The course may be elected in the junior and senior years. Officers of the United States Army are detailed to act as professors.

Reserve Officers' Training Corps

The University of Arkansas has complied with the requirements of the War Department and has been officially designated as one of the civil institutions at which shall be maintained units of the Senior Division of the Reserve Officers' Training Corps. Eligibility is limited to students who are citizens of the United States, who are not less than fourteen years of age, and whose physical condition indicates that they are fit to perform military duty, or will be so fit upon arrival at military age.

The course is divided into two parts of two years each; the Basic Course covering the freshman and sophomore years, and the Advanced Course, covering the junior and senior years. Camps, of six weeks duration, are held during the summer. These camps are subdivided into Basic Camps and Advanced Camps. Attendance at the former is voluntary and is open to all members of the Basic Course. Attendance at the latter is open to members of the Advanced Course only, and attendance at one Advanced Camp, prior to graduation, is required of all members of the Advanced Course. All expenses at these Camps, including transportation to and from camp, are paid by the government.

At the conclusion of the sophomore year, those students who have shown marked ability as leaders, who have satisfactorily completed the Basic Course, and whose scholastic standing in other academic subjects is good, are recommended as eligible for the further training of the Advanced Course by the Professor of Military Science and Tactics, and with the approval of the President of the institution are allowed to enroll in the Advanced Course. Those who so enroll are required to agree in writing to continue in the Corps for the remaining two years and to attend at least one Advanced Camp prior to graduation. Members of the Advanced Course are paid commutation of subsistence, by the Government, during the remainder of their service in the Corps at the rate of about twelve dollars a month. Men who satisfactorily complete the four years course will be offered Commissions in the Officers' Reserve Corps as Second Lieutenants of Infantry.

Students may provide their own uniforms, or a uniform will be issued by the Government on deposit of \$15, the deposit to be returned when the uniform is turned in. An additional uniform

is furnished those in attendance at Summer Camps. Those attending the Advanced Camp receive pay at the rate of one dollar a day. The total money value of uniform received, commutation of subsistence, rations in kind at Camp, pay at Camp, and transportation to and from Camp for each man who completes the four year course, is \$659.04. There is the privilege of special technical training (see outline of courses below) in various fields without any tuition fee.

111 (112) (113). BASIC COURSE, FIRST YEAR.—Theoretical and practical instruction in organization, physical training, military courtesy and customs of the service, infantry drill, including close and extended order and ceremonies, scouting and patrolling, and rifle marksmanship. MULLETT.

211 (212) (213). BASIC COURSE, SECOND YEAR.—Theoretical and practical instruction in map reading and military sketching, military hygiene, first aid and sanitation, physical training, infantry weapons including the bayonet, automatic rifle, hand grenade and rifle grenade, musketry, and the art of leadership. DILL.

531 (532) (533). ADVANCED COURSE, FIRST YEAR.—Theoretical and practical instruction in the rules of land warfare, military law and its relation to civil law, machine guns, 37 m/m gun, trench mortar, field engineering, physical training, and the art of leadership. SMITH, DILL.

631 (632) (633). ADVANCED COURSE, SECOND YEAR.—Theoretical and practical instruction in military history, administration and supply, organization, minor tactics including the employment of the auxiliary infantry weapons, physical training, and the art of leadership. SMITH.

PHYSICAL EDUCATION FOR WOMEN

ASSISTANT PROFESSOR SHALEY, MISS MANSFIELD

The purpose of the work is to improve the standard of health, and to increase the physical efficiency of the young women. A careful medical and physical examination is made of every student upon entrance and at such intervals throughout the year as may seem necessary. The exercise assigned is in accordance with the results found. The work is conducted out-of-doors whenever possible.

A regulation costume of white middy-blouse, black serge bloomers, and black gymnasium shoes is required. Owing to the necessity of uniformity, gymnasium suits should not be purchased before entering college.

The courses in Physical Education are required of all women students during their freshmen and sophomore years. A maximum of nine credit hours may be used toward graduation.

(See also courses in College of Education.)

111 (112) (113). ELEMENTARY PHYSICAL EDUCATION.—Exercises for good posture, and games; general gymnastics, correc-

tive gymnastics, games and folk dances; tennis and baseball. SHALEY, MANSFIELD.

211 (212) (213). INTERMEDIATE PHYSICAL EDUCATION.—Elective sports or elementary natural dancing; hockey and tennis; volley ball, basket-ball, and indoor baseball; tennis, baseball, and track. SHALEY, MANSFIELD.

514 (515) (516). ADVANCED NATURAL DANCING.—The expression of music by the individual, entailing a study of phrasing, note values and moods to be found in music, and exercises for the purpose of gaining control of movements. Prerequisite: Elementary Dancing. (See 211, 212, 213.) SHALEY.

PHYSICS

PROFESSOR RIPLEY, ASSISTANT PROFESSOR PARSONS,
MR. CROFUTT.

The courses are designed (1) for students in the courses in engineering, agriculture, and chemistry, as part of their required curriculum, and (2) for students in other courses who desire a general knowledge of the subject or who wish to prepare for the study of medicine, or for teaching or graduate work.

Requirements for a Major in Physics: forty-five term hours, five of which may be Mathematics 253. The courses in Physics should include courses 141-3, or 144-6 or 147-9; 231-3; 527-9; 531 or 534; 634; 628-9; 618-9, and 635. Students who are preparing to teach physics in the secondary schools should complete as a minimum requirement courses 141-143, 231-3, and 527-9.

141 (142) (143). EXPERIMENTAL PHYSICS.—A non-mathematical course in physics designed for students who desire to secure a general knowledge of the subject and of its application to everyday life. The experimental and practical phases are stressed. Open only to students offering no entrance credit in physics. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. RIPLEY.

144 (145) (146). EXPERIMENTAL PHYSICS.—Similar to 141, but more advanced. Open to students offering physics for entrance credit. Lectures and recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. CROFUTT.

144A (145A). EXPERIMENTAL PHYSICS.—A course arranged for agricultural students, covering the subjects of mechanics, heat, and electricity in two quarters. The practical phases of the subject are stressed. Fall and winter. Fee, \$1.50 each term. PARSONS.

147 (148) (149). GENERAL PHYSICS.—A general course more mathematical than the courses described above. Not open to students who have taken course 141 or 144. Required of all engineering students. The application of physical laws to engineering problems and the solution of such problems. Mechanics, heat, electricity, and magnetism are emphasized. Lectures and

recitations three hours a week, laboratory work two hours a week. Fee, \$1.50 each term. RIPLEY, PARSONS, AND CROFUTT.

231, 232, 233. THEORETICAL PHYSICS.—An advanced course in general physics dealing with the development of formulæ and the application of formulæ and laws to the solving of problems. Divided as follows: Fall, mechanics; winter, magnetism and electricity; spring, heat, sound, and light. Lectures and recitations three hours a week. Prerequisites: 141-143, or 144-146, or 147-149. PARSONS.

517, 518, 519. LABORATORY PHYSICS.—Exercises in the determination of moments of inertia, of center of mass, of Young's modulus, coefficient of viscosity, and of thermal expansion; of heats of fusion and vaporization, of capacity, of high and low potentials, photometric measurements, etc. Laboratory work three hours a week. Prerequisites: 141-143, or 144-146, or 147-149. Fee, \$1.50 each term. RIPLEY.

527, 528, 529. LABORATORY PHYSICS.—Same as preceding, but with six hours of laboratory work each week. Fee, \$3.00 each term. PARSONS.

531. HEAT.—Thermometry, heats of combustion, specific heats of solids, liquids, and gases; vapor densities, and the laws of thermo-dynamics. Lectures and recitations two hours a week, laboratory work three hours a week. Spring. Prerequisite: 141-143, or 144-146, or 147-149. (Offered in alternate years. Not given in 1924-1925.) Fall. Fee, \$1.50. PARSONS.

534. HIGH TEMPERATURES.—Measurements of high temperatures by electrical and optical methods. The theory and use of scientific and commercial types of instruments. Lectures and recitations two hours a week, laboratory work three hours a week. Prerequisite: 141-143 or 144-146, or 147-149. Fee, \$1.50. (Offered in 1924-1925 and alternate years.) Fall. PARSONS.

628 (629). ELECTRICITY AND MAGNETISM.—An advanced course in the study of the fundamental units and quantities of electricity and magnetism with special emphasis on accurate methods of determination, and the derivation of the equations involved. Designed for students in electrical engineering, and for advanced students in physics and mathematics. Two recitations a week. Winter and Spring. Prerequisite: 141-143, or 144-146, or 147-149, and mathematics 253. CROFUTT.

618, (619). ELECTRICAL MEASUREMENTS.—A laboratory course to follow or accompany 628-9. Laboratory work three hours a week. Winter and spring. Fee, \$1.50 each term. CROFUTT.

633. LIGHT.—The modern theory of light with a consideration of the recent advances in this branch of physics. The theory of optical instruments, dispersion, diffraction, polarization, etc. Lectures and recitations two hours a week, laboratory work three hours a week. Spring. Prerequisite: 141-143, or 144-146, or 147-149. Fee, \$1.50. (Offered in alternate years. Not offered in 1924-1925.) PARSONS.

635. ELECTRON THEORY.—The properties of the electron and

the development of the modern theories of gaseous and metallic conduction, thermionics, photo-electricity, and X-rays. A brief introduction to theories of atomic structure. Lectures and recitations three hours a week. Winter. Prerequisite: 141-143, or 144-146, or 147-149, and mathematics 253. (Offered in alternate years. Not offered in 1924-1925.) PARSONS.

636. ADVANCED MECHANICS.—The mechanics of solids, liquids, and gases, using the calculus, and leading up to Lagrange's equations and the use of generalized co-ordinates. Spring. Prerequisite: 141-143, or 144-146, or 147-149, and mathematics 253. (Offered in 1924-1925 and alternate years.) PARSONS.

PSYCHOLOGY AND PHILOSOPHY

PROFESSOR TANNER, PROFESSOR JEWELL, ASSISTANT PROFESSOR MAHAN

The purpose of the following courses is to enable the students to understand the working of the human mind in its relationship to the forms of human endeavor and activity.

Requirements for a Major in Psychology and Philosophy: Forty-five credit hours in psychology and philosophy. Students majoring in this Department are advised to consult a departmental instructor concerning the group courses offered and also with reference to the recommended electives in Zoology and Physiology.

Besides the courses appearing below, students are offered courses in Educational Psychology in the College of Education.

Psychology

241. GENERAL PSYCHOLOGY.—A general introduction to the study of mental life, investigating such subjects as the emotions, the instincts, sensations, general intelligence, the relations between mind and body, etc. This course is offered each term. No student who has taken Edu. Psych. 140 may be enrolled. TANNER, MAHAN.

640. INSTINCTS AND EMOTIONS.—A detailed survey of the various conceptions of instincts and emotions, the relation between the two, and their significance for everyday life. Normally follows 241. Prerequisite: 241 or Ed. Psych. 140. Winter. TANNER.

641. EXPERIMENTAL PSYCHOLOGY.—The experimental method and its technique. A study of the learning processes, with laboratory experiments bearing on sensory, motor, and perceptual learning, on memory, imagination, and reasoning. Normally follows 640. Lectures and laboratory four hours. Prerequisite: 241, or Ed. Psych. 140. Spring. TANNER.

642. SOCIAL PSYCHOLOGY.—An intensive study of the underlying psychological factors and principles involved in public opinion, sentiment, custom, imitation, personality, social will, conflict, and leadership. These principles are applied to the prob-

lems found in the mob, crowd, theater, school, church, home, community, and society. Prerequisite: Junior standing, and 241, or Ed. Psych. 140. Fall. TANNER.

633. **PHYSIOLOGICAL PSYCHOLOGY.**—A detailed study of the relationship of mental activity to physiological activity under normal conditions and under abnormal conditions induced by fatigue, excitement, the more common drugs, etc. Prerequisite: Junior standing, and 241, or Ed. Psych. 140. At least one course in college physiology is recommended. Spring. TANNER.

644. **MENTAL AND PHYSICAL TESTS.**—The origin and development of the various types of mental and physical tests. Two hours laboratory. Prerequisite: Junior standing, and 241 or Ed. Psych. 140. (Not given in 1925-26.) Fall. TANNER.

645. **INDIVIDUAL PSYCHOLOGY.**—The innate and acquired differences apparent among individuals. The contribution of near ancestry, remote ancestry, maturity, sex, and environment to the facts of individual difference. Normally follows 633. Prerequisite: Junior standing and 241 or Ed. Psych. 140. (Not given in 1924-25.) TANNER.

741. **PSYCHOLOGY OF THE ABNORMAL.**—The psycho-physical conditions and mental phenomena of illusions, hallucinations, dreams, sleep, automatism, somnambulism, hypnotism, suggestion, dissociation, double and multiple personalities, and the insanities proper. Prerequisite: 241 or Ed. Psy. 140. Spring. TANNER.

348. **PSYCHOLOGY OF RELIGION.**—The growth of religious consciousness in the individual rather than in the race. A thorough consideration of the various phases of conversion, both for themselves and as elements of a spontaneous religious development. Prerequisite: 240, or Ed. Psy. 140. (Not given in 1925-26.) Spring. JEWELL.

840. **VOCATIONAL PSYCHOLOGY.**—A critical study of the manner in which selections are made for the more important vocations. The requirements of a number of these are studied. Prerequisite: 241, or Ed. Psy. 140. (Not given in 1924-25.) Winter. TANNER.

831. **PSYCHOLOGY OF ADVERTISING.**—Specific applications of the fundamental principles of appeal and motivation are studied in detail, normally follows 646. Prerequisite: 241, or Ed. Psy. 140. (Not given in 1925-26.) Winter. TANNER.

Philosophy

231. **SOCIAL ETHICS.**—The ethical relationship of the individual to our social institutions, such as capital, labor, family, state, liberty, democracy, city, and country. Open to sophomores. (Not given in 1924-25.) Fall. MAHAN.

540. **ELEMENTARY LOGIC.**—The application of logic to the practical problems of everyday life. It includes an analysis of inductive and deductive reasoning, of the nature of hypotheses, veri-

fication, classification, scientific method, etc. Open to sophomores. Fall. MAHAN.

542. ETHICS. The origin of morals, of typical moral theories, and of current moral problems. Open to sophomores. Winter. MAHAN.

531. INTRODUCTION TO PHILOSOPHY.—A survey course in which the main fields of philosophy are mapped out, the permanent problems indicated, and the chief methods employed in their solution discussed. Open to sophomores. (Not given in 1924-25.) Spring. MAHAN.

543. HISTORY OF GREEK PHILOSOPHY.—A survey course of the history of philosophy from Thales to the Middle Ages. The relation of philosophy to Greek Ages. The relation of philosophy to Greek life as a whole, and an introduction to the more important systems of Plato and Aristotle. Open to juniors. Fall. MAHAN.

544. HISTORY OF MODERN PHILOSOPHY.—An outline of the history of modern philosophy from Bacon to Kant. The relation of modern systems to scientific, political, literary, and social movements. Open to juniors. Winter. MAHAN.

546. HISTORY OF NINETEENTH CENTURY PHILOSOPHY.—A non-technical survey of the philosophic and thought movements of the last century—romantic idealism, evolution, transcendentalism, positivism, utilitarianism, and socialism. Open to juniors. Spring. MAHAN.

533. HISTORY OF AMERICAN PHILOSOPHY.—The philosophic interpretations of American life as expressed in theology, in social and political opinion, and more recently in technical philosophy, view both in respect to European sources and to the peculiar conditions and forces of American life. Open to juniors. (Not given in 1924-25.) Winter. MAHAN.

545. SOCIAL AND POLITICAL PHILOSOPHY.—Typical problems of social organization and progress, particularly from the standpoint of individualism and socialism, nationalism, and internationalism, in their historic and current aspects. Such conceptions of social philosophy as justice, equality, property, and right will be studied with particular reference to present economic, industrial, and social conditions. Open to juniors. Spring. MAHAN.

532. THE DEVELOPMENT OF MORALITY.—A comparative study of the rules of conduct and the ideals of life. The historical development of moral conduct as exhibited in the actual customs of people. Open to juniors. (Not given in 1924-25.) Fall. MAHAN.

PUBLIC SPEAKING

PROFESSOR JORDAN AND MRS. CROCKETT

English 131-2-3 or its equivalent is prerequisite to all courses in public speaking.

531 (532). FUNDAMENTALS OF SPEECH.—Practice in the correct

use of the body and voice in speaking and reading, accuracy of observation, and care in analysis. Fall and winter. JORDAN, CROCKETT.

533. EXTEMPORANEOUS SPEAKING.—Lecture and text-book work based on the principles of effective speaking, and training in both formal and informal address. Prerequisite: Public Speaking 531-2. Spring. JORDAN.

534. ELEMENTARY INTERPRETATION.—The student is trained to read aloud simply, easily, and naturally. Story-telling, one-act plays, speech-making, and dramatic interpretation. Prerequisite: Public Speaking 531-2. Spring. CROCKETT.

535. THE TEACHING OF READING.—For prospective public school teachers, aiming to give a definite, practical method of instruction which shall apply to each grade. Prerequisite: 531-532. Spring. CROCKETT.

536 (537). ARGUMENTATION.—The course aims to teach the principles of argumentation and afford practice in the application of these principles in frequent discussions and debates. Lectures, recitations, reading, and class exercises. Fall and winter. JORDAN.

538 (539). ADVANCED INTERPRETATION.—An advanced course in the interpretation of literature. Special attention given to the study of the dramatic monologue, various forms of literature, and literary analysis. Prerequisite: 531-532, 534. Fall and winter. CROCKETT.

540. INTERCOLLEGIATE DEBATE.—The question for intercollegiate debate is studied and briefed, and frequent practice debates are held. Open only to students who have been awarded places on the intercollegiate debating squad. Winter. JORDAN.

641 (642) (643). PLAY PRODUCTION.—Plays are read aloud or put into rehearsal in order that students may vitalize the character and perceive reaction of one thought and emotion upon another. Frequent readings by the instructor from masterpieces of the drama. Public presentation of plays. The class is affiliated with the Drama League of America. Two terms required. Prerequisite: 531-532, or the equivalent. CROCKETT.

ROMANCE LANGUAGES

PROFESSOR MARINONI, ASSOCIATE PROFESSOR KESSLER, ASSISTANT PROFESSOR PASSARELLI

The courses are intended to give students a fair knowledge of the French, Italian, and Spanish languages and to stimulate knowledge and appreciation of the literary attainments of the Latin people. In the higher courses emphasis is laid especially on the study of literature. In order to give students an opportunity to become familiar with the spoken idiom, several advanced courses are conducted in the language which forms the object of study.

Requirements for a Major in Romance Languages: Fifty-four term hours to be chosen from the following courses, exact re-

quirements to be arranged with the professor in charge—French 141 (142) (143), 531 (532) (533), 534 (535) (536), 537 (538) (539), and 631 (632) (633), 634 (635) (636); Spanish 141 (142) (143), 531 (532) (533), and Italian 521 (522) (523); or Spanish 141 (142) (143), and Italian 141 (142) (143), 531 (532) (533). Major students, upon completing the required work, are expected to have a fair speaking knowledge of at least one language. They must also take course 514 (515) (516) offered by the Department of Ancient Languages. Students preparing to teach either French or Spanish in the secondary schools should complete at least thirty-six credit hours in the language chosen, and in addition include a course in the teaching of modern languages. Such students are urged to do at least one year of practice teaching in the University High School.

French

141 (142) (143). *ELEMENTARY FRENCH*.—Grammar, reading, dictation, and composition. Pronunciation is carefully taught and oral drill insisted upon. *KESSLER, PASSARELLI.*

231 (232) (233). *FRENCH LITERATURE OF THE EIGHTEENTH CENTURY*.—Voltaire, Montesquieu, Rousseau, and Diderot. Lectures, recitations, and reports. Prerequisite: 531-533. *KESSLER.*

531 (532) (533). *FRENCH PROSE AND POETRY*.—Composition, sight reading, syntax, and conversation. Reading of representative works of modern French authors. Prerequisite: 141-143. *KESSLER AND PASSARELLI.*

534 (535) (536). *FRENCH LITERATURE OF THE SEVENTEENTH CENTURY*.—A general view of the classic period. The most important literary productions are read and analyzed. Lectures and recitations in French, with a considerable amount of outside reading. Prerequisite: 531-533. *MARINONI.*

537 (538) (539). *FRENCH LITERATURE OF THE NINETEENTH CENTURY*.—Lectures and recitations in French, with readings from the leading authors of the Romantic period. Prerequisite: 531-533. *MARINONI.*

514 (515) (516). *FRENCH DRAMA*.—The evolution of the French drama from its origin to the present day. Lectures and recitations in French, with outside reading. The permission of the instructor must be secured. Prerequisite: 634-636. *MARINONI.*

631 (632) (633). *ADVANCED FRENCH COMPOSITION*. *KESSLER.*

634 (635) (636). *A SURVEY OF FRENCH LITERATURE*.—Prerequisite: 531-533. *KESSLER.*

637 (638) (639). *BALZAC*.—The life and works of Balzac. Lectures and recitations. Prerequisite: 531-533. *MARINONI.*

Italian

141 (142) (143). *ELEMENTARY ITALIAN*.—Grammar, composition, dictation, and conversation. *PASSARELLI.*

531 (532) (533). ADVANCED ITALIAN.—Syntax, composition, conversation, and reading of representative modern works. The second term will be devoted to the study of Dante's *Inferno*. Prerequisite: 141-143. PASSARELLI.

Spanish

141 (142) (143). ELEMENTARY SPANISH.—Grammar, composition, dictation, conversation, and reading of easy texts. MARINONI AND PASSARELLI.

531 (532) (533). ADVANCED SPANISH.—Syntax, composition, conversation, and reading of representative modern works. Class work is conducted largely in Spanish. Prerequisite: 141-143. MARINONI OR PASSARELLI.

534 (535) (536). SPANISH LITERATURE.—Lectures, reports, and reading of standard works. Class work is conducted in Spanish. Prerequisite: 531-533. MARINONI.

537 (538) (539). COMPOSITION AND CONVERSATION. PASSARELLI.

ZOOLOGY

ACTING PROFESSOR DELLINGER, ASSISTANT PROFESSOR REYNOLDS

The courses are designed to teach the fundamental facts of zoological science, including the laws of development, heredity, variation, and correlation, and the economic importance of animals. They are essential to a thorough preparation for medicine, agriculture, geology, sociology, and psychology.

Requirements for a Major in Zoology: Forty-five credit hours, to include courses 144 (145) (146), 441 (442) (443), 531 (532) (533), 453, 631 and 633. Students preparing to study medicine are advised to select courses 144 (145) (146), 531 (532) (533), 552, 453, and 633. Students who expect to teach zoology in secondary schools should take courses 144 (145) (146), 341 (342) (343), 531 (532) (533), 631, and 633.

132 (143). ECONOMIC ZOOLOGY.—The fundamental facts of zoology as applied to agriculture. Special attention devoted to development, heredity, variation, and parasitism. Open only to agricultural students. Winter and spring. Fee, \$2.50 each term. DELLINGER.

131. NATURE STUDY.—ANIMAL LIFE (Entomology 131).—Given jointly with the department of Entomology. The part of the course dealing with fishes, amphibia, reptiles, and mammals is given by the department of Zoology; that dealing with birds and the more common insects is given by the department of Entomology. For students interested in the out-of-doors and those intending to teach. Lecture two hours, field trips three-four hours. Prerequisite: none. Spring. Fee, \$2.00. DELLINGER.

144 (145) (146). GENERAL ZOOLOGY.—The fundamental facts of zoological science, including the laws of development, heredity, variation, and correlation. Field work on local fauna. Lectures

and recitations two hours, laboratory and field work four hours. No prerequisite. Fee, \$2.50 each term. DELLINGER.

531 (532) (533). COMPARATIVE ANATOMY OF VERTEBRATES.—An advanced study of the structures and classification of vertebrates. Lectures and recitations two hours, laboratory four hours. Prerequisite: 144-146. Fee, \$3.00 each term. REYNOLDS.

552. ANIMAL HISTOLOGY.—Histological methods of technique. Human tissue is used when possible. Primarily for students preparing for medicine. Lectures and recitation three hours, laboratory four hours. Prerequisite: 144-145. Winter. Fee. \$3.00. REYNOLDS.

453. EMBRYOLOGY.—Vertebrate embryology with regard to organogeny in the chick, pig, and man. Lectures and recitations three hours, laboratory four hours. Prerequisite: 144-146. Spring. Fee, \$3.00. REYNOLDS.

241 (242) (243). ZOOLOGY.—The physiology and anatomy of the mammalian body. A knowledge of elementary physiology required. Lectures and recitations two hours, laboratory four hours. Open only to students in Home Economics and Physical Education. Fee, \$2.50 each term. REYNOLDS.

631. THEORETICAL BIOLOGY.—Variation, selection, evolution, heredity, and some of the broader and more general problems of biology. This course will be followed by genetics (Botany 341). Prerequisite: 144-146, or open to seniors with special permission. Fall. Fee, \$2.00. DELLINGER.

633. HEREDITY AND EUGENICS.—Race improvement and the general principles of heredity as applied to man. Prerequisite: 631 or senior standing. Fee, \$2.00. Spring. DELLINGER.

341 (342) (343). GENERAL PHYSIOLOGY.—Emphasis is placed on the chemical and physical functionings of the various systems in both the higher and lower organisms. Lectures two hours and laboratory four hours. Prerequisites: 144, 145, 146, and Chemistry 141, 142, 143. This course is to alternate with 441, 442, 443, which is given in even years. Fee, \$3.00. DELLINGER AND REYNOLDS.

441 (442) (443). GENERAL MORPHOLOGY AND PHYSIOLOGY OF THE INVERTEBRATES.—Both the free living and parasitic forms. Lectures, recitations and reports two hours, laboratory four. Prerequisites: 144, 145, 146, and junior standing. Alternates with 341, 342, 343. Fee, \$3.00. DELLINGER AND REYNOLDS.

COLLEGE OF EDUCATION

The purpose of the College of Education is to unite and correlate the forces of the University which contribute to the preparation of educational leaders in teaching and supervision, whether rural, elementary, secondary, or executive.

The curriculum is based upon the assumption that teachers should have, first of all, and fundamental to all other preparation, a broad and liberal education; secondly, that they should be masters of the special subject they expect to teach; and, thirdly, that this training should be supplemented by professional courses designed to give them a knowledge of the minds of the pupils to be taught and the problems to be met, with a thorough course in practice teaching under experienced critic teachers.

ADMISSION

For a statement of the entrance requirements and a description of the subjects accepted for entrance see previous pages.

GRADE POINTS

Grade points are awarded on the same basis as in the other colleges of the University. Candidates for certificates and degrees are required to have an average of two grade points or better.

COURSES OF STUDY

The College of Education offers a two-year course leading to the elementary teacher's certificate; a four-year course leading to the degree of *Bachelor of Science in Education* (B. S. E.); and a graduate course leading to the degree of *Master of Science* (M. S.).

REQUIREMENTS FOR DEGREE

BACHELOR OF SCIENCE IN EDUCATION

The candidate must meet the entrance, residence, and registration requirements, and must complete satisfactorily at least two hundred one term hours in approved courses, or one hundred ninety-eight term hours in the teacher-training course in Vocational Home Economics, with the following restrictions:

1. Prescribed courses as follows: English 131 (132) (133), nine hours; education and psychology, thirty-six hours, including Psychology 241; Education 111 (112) (113), 241, 243, 335, and 350; military art, six hours (for men), or physical education six hours (for women).

2. Elective courses to be chosen from the following groups with the restrictions noted below:

Group 1. English, French, German, Greek, Italian, Latin, and Spanish.

Group 2. Astronomy, botany, chemistry, geology, mathematics, physics, and zoology.

Group 3. Economics, education, history, political science, philosophy, sociology, and home economics.

Group 4. Agricultural subjects, Bible, engineering subjects, fine arts, law, medicine, military art, and physical education.

a. The candidate may elect not more than sixty hours from any one subject, and not more than one hundred twenty hours from any one group, except by special permission of the dean of the college.

b. The candidate must select, not earlier than the beginning of his sophomore year and not later than the beginning of his junior year, one major subject, in which he must complete at least forty-five credit hours, and two minor subjects, in which he must complete at least twenty-seven and eighteen credit hours, respectively, subject to the approval of the head of the department and the dean of the college. The major subject in every case shall be chosen from the group in which the student finds the subject matter he is preparing to teach. A description of the major requirements of each department will be found under the departmental statements.

c. The candidate preparing to teach subject matter found in groups 1, 2 and 3, respectively, must elect not less than twenty-seven hours from Group 1 and fifty-four hours from groups 2 and 3 combined, with not less than eighteen hours from either Group 2 or 3.

d. Students who find their major or minor in Group 4 should in every case consult with the dean concerning their courses of study. The College of Education gives full credit for work in music, i. e., one hour of credit is given in each term for courses 111 to 119, inclusive. However, one year in piano, violin, or voice must be completed in college before the student may enroll for credit in that subject. This does not apply to pipe organ, which has piano as a prerequisite. No credit is allowed unless the student takes at least two lessons a week.

e. Students registering in college for a beginning course in any foreign language must take not less than two years of work in that language to receive credit for it toward graduation.

f. Freshmen will be expected to continue in college work in some department other than English, in which have been submitted entrance credits.

g. If the student is expecting to become a secondary school teacher or an administrator, he will conform as closely as possible to the following schedule in the distribution of his work:

Freshman Year

	Credit Hours
English 131, 132, 133.....	3
Education 111, 112, 113.....	1
Physical Education or Military Art 111, 112, 113.....	1

	CREDIT HOURS
Foreign Language, Science or Mathematics.....	4
Electives	7
	<hr/> 16

Sophomore Year

Psychology 241, Education 241 and 243.....	4
Physical Education or Military Art 211, 212, 213.....	1
*Electives	12
	<hr/> 17

Junior Year

Education 335.....	3
Special Methods Course.....	2 to 4
*Electives	10 to 12
	<hr/> 17

Senior Year

Education 350—5 hours each for two terms.....	
Electives	
	<hr/> 17

MASTER OF SCIENCE

Regulations covering this degree are outlined on a previous page, under the heading "Graduate Work and Advanced Degrees."

*REQUIREMENTS FOR A TEACHER'S
CERTIFICATE*

The teacher's certificate of the University of Arkansas is granted in accordance with a state law which reads:

"That the diploma from the teachers' training department of the University of Arkansas shall be equivalent to a teacher's professional license, which shall entitle the holder to teach in any public school in the State of Arkansas for a period of six years from and after the date of issue. At the expiration of said period such diploma may be converted into a life certificate, provided that the character of the work done by the holder thereof, and his or her moral character, shall meet with the approval of the Superintendent of Public Instruction of the State of Arkansas."

In accordance with this law, the University of Arkansas grants certificate valid in any elementary school in the state for the completion of a two-year course outlined on the following pages.

*Note.—These electives must include the major and minor subjects, chosen not later than the beginning of the junior year.

Note II.—If, during the freshman year, a foreign language other than one submitted for entrance credit, be elected, it must be continued throughout two consecutive years.

Note III.—In certain cases practice teaching (Education 350) may be begun during the last term of the Junior year.

It also grants Teachers' Certificates valid in any high school in the state on the completion of the four-year course outlined on the preceding pages.

The only degree given by the University of Arkansas which in itself entitles the holder to teach in the schools of this state, or of other states requiring professional preparation of its teachers, is the degree of Bachelor of Science in Education. Graduates holding other degrees are required to pass examinations for teachers' certificates, unless they also have certificates granted by the College of Education for not less than thirty-six hours of professional work, which must include the requisite courses.

A student who intends to take a degree in another college of the University should register in that college. If, in addition, he expects to take the teacher's certificate in the College of Education, he must also be registered in the College of Education during his terms in which he is doing his professional courses.

Students in other colleges, who expect to receive the teacher's certificate at some time in the college course, are advised to consult with the dean of the college of Education not later than the end of the freshman year.

Course for Secondary Teachers

Students preparing to teach in high school will spend at least two years, preferably three, taking academic courses in the subjects they wish later to teach, and take a special methods course prior to the term in which they begin their practice teaching, which will be done not earlier than the junior year. It is no longer possible to place in a fully accredited high school a teacher who lacks a degree from a standard college or university.

Course for Elementary Teachers

Students wishing to teach in the elementary grades must be registered in the College of Education during both the freshman and sophomore years. On the completion of the elementary teacher's course they will be given an Elementary Teacher's License, good for the same length of time as the teacher's license given for the completion of the four-year college course, but entitling them to teach in the grades only. This course can be completed at the end of the sophomore year. This course is so arranged that students may return and secure their Bachelor's degree after the completion of the junior and senior years of college work.

Candidates for the Elementary Teacher's License will conform as closely as possible to the following schedule in the distribution of their work:

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, 132, 133.....	3	3	3
Psychology 140.....	4	..	..

CREDIT HOURS

	FALL	WINTER	SPRING
Education 141 (Teaching Process).....	..	4	..
Education 142 (Prin. Elem. Educ.).....	..	..	4
Primary Methods.....	3	3	3 or 2
Education 111, 112, 113.....	1	1	1
Public School Music or Normal Art.....	2	2	2
Botany (Nature Study).....	..	..	3
Electives	2	2	..
Physical Education	1	1	1
	16	16	16

Sophomore Year

Education 250.....	5	5	..
Elem. Tests and Measurements 230.....	..	..	3
Public School Music or Normal Art.....	2	2	2
Electives	2	2	..
Physical Education.....	1	1	1
	17	17	17

Practice Teaching

Opportunity for practice teaching in practically all the elementary and secondary subjects, as well as agriculture, home economics, manual training, and physical training, is provided in the University Training High School. General Psychology (241), Teaching Process (141 or 241), either Principles of Elementary Education (142) or Principles of Secondary Education (243), and a special methods course are prerequisite to practice teaching. Students should determine as early as possible subjects which they desire to teach and should prepare themselves thoroughly in those fields. No student shall be assigned to practice teaching unless he has made special preparation in the work for which he is applying.

All assignments to classes are made by the Director of the Training School. Before registering for teaching, students must consult with him and submit, in addition to a recommendation from the department in which special preparation has been made, a statement from the Registrar of the courses completed in Education and in the academic subject which the student proposes to teach. Special blanks for this purpose may be secured at the office of the Director of Training.

Recommendation Bureau

The College of Education maintains a Recommendation Bureau, the purpose of which is to place properly in teaching positions those of its students and graduates whose teaching ability is satisfactory to the faculty of this college and whose major professors concur in this recommendation. Since such recommendations are worthless unless based on personal knowledge, the Bureau manifestly cannot place its services at the disposal of teachers concerning whose teaching ability the members of

the staff of critic teachers know nothing. It is still possible to find positions for primary and grade teachers who possess a certificate given at the close of two years of college work. It is not possible, however, to place high school teachers in good positions unless they have earned a college degree. Every year there are many more requests for teachers than there are graduates available. Graduates need not leave the state to secure important positions at good salaries. Students looking forward to teaching in other states should, however, confer with the dean as to the requirements for teaching in such states. In general the requirement is a minimum of twenty-seven term hours of professional work following a course in general psychology.

VOCATIONAL TEACHER TRAINING

The University of Arkansas has been designated by the Federal government as the institution in which all the teacher training in the State of Arkansas under the Smith-Hughes Act shall be done. A department of Vocational Teacher Training has been established in the College of Education; there have been added to the faculty, also, professors of agricultural education, a professor of education in the trades and industries, a professor of home economics education, and four critic teachers to supervise the practice teaching of students. Other professionally trained critic teachers will be added to the faculty as soon as any considerable body of students is enrolled in the later years of the courses involved.

It is the intention of the Federal Board, as well as of the Arkansas Board which will have charge of the Smith-Hughes work, that teachers who prepare themselves for the work by graduation from any one of the courses given below shall be employed for an entire year, rather than for a few months only, and shall receive liberal salaries. A certain amount of practical experience will be required in addition to college graduation. The courses given below in detail are tentative only and probably will be slightly altered from time to time as experience makes necessary.

It is worthy of note that the vocational training courses planned by the University of Arkansas comprised the first state scheme to be approved by the Federal Board.

Candidates for admission to these courses must present fifteen units of high school work or the equivalent. A student desiring to teach Agriculture shall for the first two years take the general agricultural course. At the beginning of the third year, he shall register in both the College of Agriculture and the College of Education. He may then take his degree in the College of Agriculture along with the teacher's certificate in the College of Education, or he may take his degree in the College of Education with agricultural education as a major. Not later than the beginning of the junior year, and earlier if possible, students

expecting to teach agriculture should consult with the Professor of Agricultural Education with regard to the arrangement and selection of courses. The teacher training in vocational agriculture may be taken only by persons who have had at least two years of vocational agricultural experience, or who are acquiring such experience as a part of their training. Each one of these courses covers four college years and is especially prepared for teachers of these respective vocational subjects. Each course consists of two hundred four term hours of work, a certain part of which must be in scientific project work in the vocation involved, and twenty-nine or thirty term hours in professional subjects, including practice teaching.

The Following Professional Courses are an Unvarying Requirement

Psychology 236—Psychology of Teaching.....	3 term hours
Education 241—The Teaching Process.....	4 term hours
Education 350—Practice Teaching.....	10 term hours
Education 243—Principles of Secondary Education.....	4 term hours
Education 332 and 333, or Home Economics 341.....	3 or 4 term hours

Vocational Home Economics Teachers' Training Course
(For the first two years see College of Agriculture)

The teacher's certificate, in addition to the degree of Bachelor of Science in Home Economics, is granted to all candidates for a degree who complete the following courses. This course is offered by agreement between the College of Education and the College of Agriculture and is designed especially for the training of teachers of Vocational Home Economics in the Smith-Hughes Vocational Schools.

	Credit Hours
Home Economics 331, 332 (Food Economics).....	6
Home Economics 334, 335, 336 (Dietetics).....	9
Education 111, 112, 113 (Principles of Education).....	3
Education 241 (Teaching Process).....	4
Education 335 (Test and Measurements).....	3
Education 243 (Principles of Secondary Education).....	4
Education 341 (Methods of Teaching Home Economics).....	4
Education 350 (Practice Teaching).....	10
Home Economics 361 (Household Management).....	6
Home Economics 441 (House Planning).....	4
Home Economics 442 (House Furnishing).....	4
Home Economics 443 (Position of Women).....	4
Home Economics 234, 235, 236 (Textiles and Clothing Economics)....	9
Home Economics 221 (Study of Costume).....	2
Agricultural Engineering 322 (Farm Conveniences).....	2
Bacteriology 342.....	4
Home Economics 423 (Household Problems).....	2
Economics or Sociology.....	4
Electives.....	12
Total.....	96

Four-Year Course in Vocational Agricultural Education

During the first two years of this course students will take the regular general course in Agriculture.

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Education 236 (Psychology of Teaching).....	3	..	..
Education 241 (Teaching Process).....	..	4	..
Education 243 (Principles of Secondary Education) ..	..	..	4
Education 332 (Vocational Agri. Education).....	..	3	..
Education 333 (Organization and Administration of Vocational Agriculture).....	..	..	3

Senior Year

Education 432 (Rural Problems).....	3	..	..
Education 431 (Methods and Materials in Agricultural Education).....	..	3	..
Education 450 (Supervised Teaching).....	..	..	5

Electives in the junior and senior years to include not less than eight of the following subjects:

- Economics (331-332).
- Agricultural Engineering (322, 442, 331).
- Animal Husbandry (331, 351, or 352, 450).
- Agronomy (331-332-333).
- Bacteriology (351).
- Economic Entomology (252).
- Farm Management (431-432).
- Horticulture (330 or 437).
- Veterinary Science (341 or 332).
- Plant Pathology (352 or 442).
- Agronomy (345-346).

Additional electives may be chosen in any department of the College of Agriculture, or in Political Economy, Sociology, History, English, language, or sciences.

COURSES IN PHYSICAL EDUCATION

Complete four-year courses in physical education, for the preparation of instructors in this line of work, are in course of preparation. In the meantime the three instructors in the department are offering courses in the theory of coaching and in the teaching of physical education. Students who are prepared for it may do practice teaching in one or another of the various lines of physical education under the supervision of the University coaches.

SYMBOLS

The courses are numbered in accordance with the system previously described.

CREDIT HOURS

The number of credit hours allowed in each course is identical with the number of hours of lecture or recitation hours a week through the term; in laboratory, shop, or field work two or three hours are considered as equivalent to one hour of lecture or recitation.

Requirements for a Major in Education: Forty-eight credit hours, including General Psychology, Principles of Education, Teaching Process, Principles of Secondary Education, Secondary Tests and Measurements, Educational Psychology, and Practice Teaching.

Specialization Requirements: Prospective teachers should decide as early as possible the field in which they wish to teach, and prepare themselves accordingly. In general, students will not be recommended for teaching positions in a particular field unless they have pursued the following courses or their equivalents in that field.

1. Junior and Senior High School Teachers—Requirements must be satisfied for a major in the department or departments in which the student expects to teach. It frequently proves a decided advantage to a student to take the courses suggested for those expecting to teach, in two different departments. These should also include the special methods courses. Courses in Education to be pursued: 243, 334, 536. Courses in Psychology: 142, 245.
2. Elementary School Principals—Courses in Education to be pursued: 142, 134, 330, 230, 343, 344, 345, 346, 526. Courses in Psychology: 248, 239, 240.
3. High School Principals—Courses in Education to be pursued: 134, 330, 234, 335, 345, 536, 537. Courses in Psychology: 248, 245.
4. Superintendents and Supervisors—Courses in Education to be pursued: 134, 330, 342, 335, 344, 345, 346, 526, 527, 536. Courses in Psychology: 248, 239, 240.
5. College Teachers of Education—Courses in Education to be pursued: 134, 330, 334, 342, 230, 235, 344, 345, 346, 526, 536, 580. Courses in Psychology: 248, 239, 240.

DEPARTMENTAL STATEMENTS

AGRICULTURAL EDUCATION

(Under the joint supervision of the Dean of the College of Agriculture and the Dean of the College of Education)

Courses 236, 241, 243, 332, 333, 350, 431, 432, as outlined below, are required for completion of the Agricultural Education group. This, in addition to a degree in Agriculture, entitles graduates with state certificates to teach in the high schools, upon application. The group in Agricultural Education is designed primarily for teachers, but graduates of any other group who have had the professional courses required in this group are eligible as teachers of Vocational Agriculture in the high schools of the state under provision of the Smith-Hughes Act.

236. Psychology of Teaching.—(Dept. of Ed. Psy.)

241. Teaching Process.—(Dept. of Methods.)

243. Principles of Sec. Ed.—(Dept. of Prin. of Ed.)

332. Vocational Agricultural Education.—(Dept. of Prin. of Ed.)

333. ORGANIZATION AND ADMINISTRATION OF VOCATIONAL AGRICULTURE.—The organization of a Vocational Agricultural Department in the high school, and a study of all the agricultural courses offered in the high schools of Arkansas, including topics: Content of courses, laboratory exercises, field trips, library books, bulletins and magazines, laboratory equipment, and manuals. Prerequisite: 236 and 332. Spring. FRITTS.

339. VOCATIONAL GUIDANCE.—Methods of entering employment and factors influencing choice; waste involved and means of remedying. A study of the leading vocations and a critical analysis of individual aptitudes. Methods in educational guidance. Winter. FRITTS.

350. PRACTICE TEACHING.—(Dept. of Methods.)

431. METHODS AND MATERIALS IN AGRICULTURAL EDUCATION.—Special study of such topics as: Home projects, farm practice, illustrative material, the stereopticon, part-time work, educational contest, chart-making, community work, supervised study, field trips, seasonal sequence, the school farm, and the agricultural teacher. Prerequisite: 246 and registration in 333. Winter. FRITTS.

432. RURAL PROBELMS.—Rural community problems showing the prospective teacher of Vocational Agriculture his relation to home life, the schools, and other institutions in the rural community. Prerequisite: 236 or 140. Fall. FRITTS.

441, 442, 443. AGRICULTURAL INSTRUCTION.—More extensive study of the problems in 333 and 431. Farm skills, plans, supervised farm practice, and qualifications of teachers. In addition, each student selects an individual problem for intensive study as basis for his thesis. 411 must accompany this course; 333 and 431 must precede or accompany it. FRITTS.

451, 452, 453. ORGANIZATION AND MANAGEMENT OF TEACHER TRAINING DEPARTMENTS.—More extensive study of the problems in 333 and 431, with special emphasis on the duties of the vocational agriculture teacher, as the basis for determining the work of a teacher-training department. A course of study will be determined. Individual problems will be chosen as basis for a thesis. 411 must accompany this course; 333 and 431 must precede or accompany it. FRITTS.

EDUCATIONAL PSYCHOLOGY

PROFESSOR JEWELL, PROFESSOR TANNER, PROFESSOR WEBER

Besides the courses in Psychology appearing below, students are offered other courses in Psychology in the College of Arts and Sciences.

140. ELEMENTARY PSYCHOLOGY.—A course in general psychology designed for those preparing for the two-years teacher's certificate. Open to freshmen. Fall and winter. TANNER.

239. PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS.—The

psychological processes involved in the learning of reading, writing, arithmetic, history, and geography. The laws of habit formation applied in arranging the material. Prerequisite: Psychology 140 or 241. Winter. TANNER.

240. GENETIC PSYCHOLOGY.—An intensive study of the development of the mind from childhood to adolescence, with a consideration of the arguments for and against the recapitulation theory. A careful interpretation of both heredity and environmental influences in their bearing upon education in the home and in the school. Prerequisite: Psychology 140 or 241. Fall. JEWELL.

236. PSYCHOLOGY OF TEACHING.—Especially for students in the various Smith-Hughes courses, dealing with the topics usually studied in General Psychology, but always with reference to the learning process. Very practical, and the application of the laws of psychology to teaching will be stressed. Fall. JEWELL.

238. ADVANCED EDUCATIONAL PSYCHOLOGY.—The types and laws of learning are critically evaluated. A study is made of the variations in learning due to practice, methods, fatigue, and interest. Prerequisite: Psychology 140 or 241. Spring. TANNER.

335. PSYCHOLOGY OF HIGH SCHOOL SUBJECTS.—A psychological analysis of high school subjects with the object of determining the mental processes involved in studying them; review of experimental studies; criticism of methods of instruction. Prerequisites: Psychology 140, or 241, and Education 243. (Not given in 1925-26.) Winter. WEBER.

345. PSYCHOLOGY OF ADOLESCENCE.—The important physical, mental, and moral changes natural to adolescence. Of special interest to all who have to deal with boys and girls of high school age. Attention given to laying the foundation for the pedagogy of secondary instruction. Prerequisite: Psychology 140 or 241. Winter. JEWELL.

METHODS AND MANAGEMENT

PROFESSOR CADE, PROFESSOR MARINONI, PROFESSOR PALMER, PROFESSOR REINOEHL, ASSOCIATE PROFESSOR FRITTS, ASSISTANT PROFESSOR SHOWALTER, MISS BLAIR, MISS BUNKER, MR. ROYER, MISS WILSON

121. NUMBER AND SCIENCE FOR PRIMARY GRADES.—Organization of subject matter and methods of presentation. Recitation, reference reading, and observation. Spring. WILSON.

124 (125) (126). PUBLIC SCHOOL MUSIC.—Preparatory to teaching music in the public schools. Two meetings each week are given to sight reading and one to a study of the methods of teaching the subject to children. ROYER.

130. COMMUNITY LIFE AND HISTORY FOR THE PRIMARY GRADES.—Selection and organization of material, and methods of presentation. Lectures, recitation, reference reading, and observation. Fall. WILSON.

139. ENGLISH FOR PRIMARY GRADES.—The teaching of litera-

ture, reading, composition, spelling, and penmanship. Lectures, recitation, reading, and observation. Winter. WILSON.

141. TEACHING PROCESS.—An introduction to the scientific principles underlying teaching. Aims of the schools, chief factors in the educative process, best methods of study, types of lessons, skillful questioning, lesson plans, health education, problems in organization and control, newer phases of instruction. Text-book, lectures, and recitations. Offered every term. REINOEHL.

241. TEACHING PROCESS.—Practically the same course as 141, but adapted to secondary instead of elementary teachers. Offered every term. REINOEHL.

333. THE TEACHING OF ENGLISH.—The aims, methods, and results of teaching English in high school. Written English emphasized. Prerequisites: Education 241, 243, Psychology 241, and English 542, 543. Fall. BUNKER.

336. THE TEACHING OF HISTORY.—The materials of history and the practical problems of teaching the subject in secondary schools. Prerequisites: Education 241, 243, Psychology 241, and History 131-133. Winter. BUNKER.

337. THE TEACHING OF MATHEMATICS.—Algebra and Geometry; educational value; position in course; methods of teaching (both American and foreign); order and importance of topics; text-books and literature. Lectures, discussions, and reports. Prerequisites: Education 241, 243, Psychology 241, and Mathematics 155-157. Spring. BLAIR.

323. THE TEACHING OF FRENCH.—The problems that confront the teacher of French in secondary schools; pronunciation; choice and presentation of grammatical material; oral practice; composition; choice of texts; methods of presentation. Prerequisites: Education 241, 243, Psychology 241, and French 553. Spring. MARINONI.

338. VISUAL AIDS IN EDUCATION.—Lectures, readings, discussions, experiments, and demonstrations on the use of visual aids in the classroom. More specifically (a) psychological principles underlying the use of visual aids in education, (b) types of visual aids and their comparative effectiveness, (c) administrative problems—expense, availability, method of circulation, (d) picture projection technique, and (e) special methods in the various school subjects. Course offers rich opportunities for project work. Spring. WEBER.

539. TEACHER'S COURSE IN SECONDARY SCIENCE.—History of the sciences in secondary schools, their purpose and aims. Emphasis is placed on the psychological method of presenting material in the various science courses. The project method of teaching the sciences will be included. Prerequisites: At least one year, preferably two, of college science, and Education 241, 243, Psychology 241. Required of students preparing to teach science. Winter. SHOWALTER.

341. THE TEACHING OF HOME ECONOMICS.—Development of

the home economics movement. Place of home economics in secondary schools. Vocational home economics. Planning courses, methods of presentation, laboratory management, home projects. Prerequisites: Home Economics 331-332 and 234-236; Education 241, 243, and Psychology 241. Spring. PALMER.

343. PROJECT METHOD OF TEACHING.—Pedagogical principles underlying this method; the different types of projects; concrete material that has been worked out in the class room; the fields in which the project may originate; the significance of the project in large units of study; outcomes of projects checked against subject matter outlined in the course of study. Prerequisites: 241, 243, Psychology 241. Winter. CADE.

350. PRACTICE TEACHING.—Daily teaching of one period in the Training School in practical application of the principles of instruction. Teachers' meeting one hour a week. (In Home Economics this course is called Education 350-351, and has Home Economics 341 as a prerequisite.) Prerequisites: Education 241, 243, and Psychology 241. BLAIR, BOWMAN, BUNKER, CADE, FRITTS, MARINONI, PALMER, SHOWALTER, AND WILSON.

257. STATISTICAL METHODS IN EDUCATION.—A practical study of the scientific methods of compiling, organizing, and interpreting all kinds of educational data. The graphic representation of data emphasized with special attention given to the actual need of teachers and superintendents taking the course. Spring. REINOEHL.

PHYSICAL EDUCATION

PROFESSOR SCHMIDT, ASSISTANT PROFESSOR SHALEY,

MR. GROVE, MISS MANSFIELD

For Men

These courses have not been prepared for the general student body, but for players and for those whose business or pleasure it may be to instruct players or teams, the idea being to train men to fill the demand for athletic coaches in the institutions of learning throughout the state. The work will consist partly of lectures and partly of demonstrations. The courses are not open to freshmen.

231. THEORY OF FOOTBALL.—Standard systems of offensive and defensive methods; approved play for each position of line, ends, and backfield; generalship and strategy; the relative value of kicking, passing, and running; regular and open formation; signal systems; conditioning and training of team; equipment; a study of the rules from the standpoint of coaching, playing, and officiating. Frequent and regular demonstrations on the field of blocking, tackling, passing, punting, place and drop kicking, drills for linemen and backs, tackling dummy and charging sled, fundamentals emphasized. Fall. SCHMIDT.

225. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATIONAL DEPARTMENT.—Purpose and scope of Physical Educa-

tion. Organization and administration of a college or high school department of physical education. Organization in industrial plants. Physical efficiency tests. Systems of physical education. Administration of mass athletics. Spring. GROVE.

232. THEORY OF BASKETBALL.—To aid and benefit those desiring to coach basketball. Emphasis will be given to team play, characteristics of the different positions, passing, catching, and dribbling the ball, goal shooting, pivoting and dodging, offensive and defensive systems, consideration of the different styles of play used by leading coaches, conditioning a team, study of the rules. The principles and ideas brought out in the theory of class will be demonstrated and practiced. Winter. SCHMIDT.

233. THEORY OF FIELD AND TRACK.—Form and method of starting, finishing, sprinting, distance-running, hurdling, high and broad jumping, pole vaulting, weight events, shot put, discus, hammer, and throwing the javelin, relay racing; a suggestive course of training and conditioning for each event. Lectures on diet, massage; rules of competitions; suggestions on the conduct and management of athletic meets. Each event discussed in theory class will be practiced on the track and field. Winter. GROVE.

234. THEORY OF BASEBALL.—The theory and fundamentals of the national game as a science as well as an art. Special attention to battery work, pitching, strategy, delivery, the proper method of filling each position; team play, coaching methods, study of the rules. Demonstration and practice of the principles discussed in theory class. Winter. SCHMIDT.

For Women

Minor in Physical Education

The minor in physical education for women enables students to specialize in the subject, even though they do not adopt it as a major. Provision is thus made for students to qualify themselves to teach physical education in connection with academic subjects in the high schools.

In order to minor in physical education for women, a student must have completed the following courses in addition to his regular freshman and sophomore work:

	Credit Hours
Technique of Sports 214, 215, 216 (any two).....	2 hours
Games 221	2 hours
Folk Dancing 222.....	2 hours
Practical Hygiene 223.....	2 hours
Elementary Dancing, etc., 211, 212, 213.....	3 hours
Principles of Physical Education 527.....	2 hours
Supervised teaching or coaching.....	10 hours
	<hr/> 22 hours

(See also courses in College of Arts and Sciences.)

214, 215, 216. TECHNIQUE OF SPORTS.—The rules of the games and the methods of coaching the sports offered each term. Stu-

dents will assist as officials in the various games held on the campus. These courses to be taken supplementary to courses 211, 212, 213, by those expecting to teach. MANSFIELD.

221. GAMES.—Especially for teachers. A graded series of games suitable for playground, schoolroom, and gymnasium, and leading to the more advanced team games is given. Prerequisite: 111, 112, 113. Fall. SHALEY.

222. FOLK DANCING.—A graded course of folk dances suitable for use in the grades and high schools. Prerequisite: 111, 112, 113. Winter. SHALEY.

528. TEACHING OF PHYSICAL EDUCATION.—The principles of physical education as applied to the teaching of games, folk dances, marching, and the coaching of basketball and tennis. Not open to freshman girls. Winter. SHALEY.

225. PRACTICAL HYGIENE.—Lectures and practice in first aid, exercises for correcting postural defects, the examination and measuring of school children. Prerequisite: 111, 112, 113. Spring. SHALEY.

514 (515) (516). ADVANCED NATURAL DANCING.—The expression of music by the individual, entailing a study of phrasing, note values and moods to be found in music, and exercises for the purpose of gaining control of movements. Prerequisite: 211, 212, 213. SHALEY.

527. PRINCIPLES OF PHYSICAL EDUCATION.—As applied to the teaching of games, folk dances, tactics, and the coaching of athletics. Prerequisites: 111, 112, 113. Winter. MANSFIELD.

PRINCIPLES OF EDUCATION

PROFESSOR JEWELL, PROFESSOR WEBER, PROFESSOR REINOEHL,
PROFESSOR CADE, ASSOCIATE PROFESSOR FRITTS

111 (112) (113). INTRODUCTION TO EDUCATION.—An introduction into the main problems of public education in a democracy. First, a study of the progress made in the scientific study of education, including those skills, knowledges, tastes, and ideals demanded in modern life, and the instinctive equipment of the child which may be used to acquire these ends. Second, the laws of learning and thinking. Third, a brief historical tracing of the genesis of educational theory and practice. JEWELL.

142. PRINCIPLES OF ELEMENTARY EDUCATION.—Principles of education as they affect the work of the elementary school; course of study; selection and organization of subject matter; educational method, including problems and projects in teaching; adjusting work to meet individual differences; grading and promotion of pupils. Offered every term. WEBER.

243. PRINCIPLES OF SECONDARY EDUCATION.—Aims and functions of secondary education in a democracy; the high school pupil; individual differences; the curriculum and the selection of subject matter; methods of teaching; cardinal principles of organization and management in so far as they affect the work of the teacher. Offered every term. WEBER.

330. PHILOSOPHY OF EDUCATION.—Education considered from the standpoint of: (1) biology, (2) neurology, (3) psychology, (4) anthropology, and (5) sociology. Instinct, heredity, habit, culture-epochs, individual differences, imitation, suggestion, training and memory, imagination, emotions, will, senses, motor activities and moral nature, formal discipline, educational values, and social education. Prerequisites: Psychology 140 or 241, and Education 141 or 241. Fall. JEWELL.

342. COMPARATIVE SCHOOL SYSTEMS.—The outstanding features of the school systems of France, Germany, England, Denmark, Switzerland, and the United States. Planned for those interested in the working out of the curriculum and a better supervision of the schools. The changes in education that the Great War has brought to England and Germany, and its probable effect on the United States, are largely emphasized. Text-book, lectures, and references. Winter. JEWELL.

411. SEMINAR IN AGRICULTURAL EDUCATION.—A review of current literature bearing on Vocational Education; round table discussions on special topics relating to the work in Arkansas and other states. For seniors and graduate students majoring in vocational work. Offered any term. FRITTS.

526. CURRICULUM PROBLEMS.—A study of both the supervisory and the administrative aspects of curriculum making. It deals with the selection of aims, methods, teaching materials, and standards of achievement in school subjects. Vitalization of instruction by extending supervision through the course of study. Special attention given to current work in the application of scientific methods to the development and organization of content-materials. References, lectures, and discussions. Prerequisite: 241 or 243. Winter. REINOEHL.

334. CONDUCT OF THE RECITATION IN THE HIGH SCHOOL.—(a) Direct Study—How we think; the training of thought; technique of supervised study. (b) The Recitation Period—Types and methods of recitation; types of questions and answers. The class is in constant touch with the demonstration school and frequently observes classes. Prerequisite: 243. Winter. WEBER.

332. VOCATIONAL AGRICULTURAL EDUCATION.—The evolution of agricultural education since prehistoric times. Comparative studies of agricultural education in the United States and other countries, with special reference to most recent developments. Prerequisites: 241, 243; Psychology 246. Spring. FRITTS.

230. ELEMENTARY TESTS AND MEASUREMENTS.—Standard tests and scales for the measuring of educational attainments in the elementary schools. Practice in applying tests in oral and silent reading, penmanship, arithmetic, spelling, etc. Prerequisite: 141 and 142. Spring. CADE.

335. TESTS AND MEASUREMENTS FOR SECONDARY SCHOOLS.—Desirable outcomes of the different high school subjects; a critical survey of available high school tests and scales; the

technique of giving, scoring, tabulating, presenting, and interpreting the results; the use of standard tests in experimentation, classification, and diagnosis. Each member of the class will be given actual practice in the application of some standard test. Prerequisites: Psychology 241, and Education 243. Fall. WEBER.

SCHOOL ADMINISTRATION

PROFESSORS CADE, JEWELL, REINOEHL

134. SCHOOL HYGIENE.—Problems of school hygiene, including heating, lighting, ventilating, school diseases, medical inspection of schools, and hygiene of various school activities. Lectures, and references. (Not offered in 1924-25.) JEWELL.

537. PROBLEMS IN SECONDARY EDUCATION.—For prospective high school principals and supervisors, and closely related to 243; classification and homogeneous grouping of pupils; making of daily schedules; measuring results of teaching, and teacher rating; records and reports; methods of securing publicity. Prerequisite: 243. Winter. WEBER.

638. SEMINAR IN SECONDARY EDUCATION.—A research course in special problems in secondary education. Administration, financial support, etc. Prerequisite: 537 and 243. (Offered any term.) WEBER.

320. EDUCATIONAL SURVEYS.—A study of typical school surveys in state, city, and county. Aims, methods of conducting, results. Collecting, tabulating and interpreting data. Presenting the report to teachers and to the public. Survey of a school as a concrete class project. Open only to mature and serious minded pupils. Fall. REINOEHL.

330. STATE SCHOOL SYSTEMS.—A comparative study of typical state school systems with special reference to Arkansas' educational organization. The state in relation to school officials, qualifications of teachers, child accounting, textbooks and courses of study, building and grounds, records and reports, testing programs, inspection and supervisory services, school finance, and school law. Work of the National Bureau of Education and Federal aid to the states included. Reference readings, discussions, reports. (Not offered in 1924-25.) Fall. REINOEHL.

331. RURAL EDUCATION.—The distinctive features of a modern county school system. Noteworthy examples of reorganized schools and of rural service. Study of such topics as school consolidation, the teaching equipment, the new curriculum, attendance, local surveys, school funds and budgets, school records, reports and educational publicity. For prospective county superintendents, normal training teachers, principals of rural and consolidated schools, and for teachers of agriculture and home economics who are constantly being drawn upon to assume positions of leadership in these schools. Textbook, references and reports. Fall. REINOEHL.

332. CLASSROOM MANAGEMENT.—A constructive study of prob-

lems relating to the organization and the conduct of the classroom. Emphasis upon fundamental principles for guidance in dealing with these problems. The course includes such topics as program making, handling routine, economy of time, government and discipline, pupil self-direction, school incentives, school spirit, aids to instruction. Reference reading, discussion, reports. Spring. REINOEHL.

333. EDUCATIONAL STATISTICS.—A practical study of the scientific methods of compiling, organizing, and interpreting educational data. The solution of concrete problems illustrating measures of central tendency, dispersion and relationship. Use of index numbers. Tabulations and graphic representation of data. Open only to mature and serious minded students. (Not offered in 1924-25.) Spring. REINOEHL.

344. THE PRINCIPAL AND HIS SCHOOL.—A practical course, dealing with the problems of organization and administration of a single school, the supervision of instruction, school extension and community relationships. For prospective building principals of ward schools, of town and village schools, and of consolidated schools. Prerequisite: 12 hours in education, or teachers of wide experience. Textbooks and reports. Winter. REINOEHL.

345. CITY SCHOOL ADMINISTRATION.—Major Topics: Evolution of city districts; the school plant; administrative organizations; boards of education; the city superintendent; the teaching staff; classification and promotion of pupils; student activities; school accounting, budgets and reports; educational publicity. Prerequisite: 12 hours in education, or for teachers of wide experience. Textbook, discussions, reports. (Not offered in 1924-25.) Winter. REINOEHL.

346. SCHOOL SUPERVISION.—The supervisory aspects of school administration. Development of supervision; present status; methods and plans; class schedules; organizing teaching materials; criticism of instruction; supervised study; supervisory devices; economy and effectiveness in teaching; measuring results. Prerequisite: 142 or 243, or, in case of teachers of wide experience, the permission of the instructor. References, discussions, reports. Spring. REINOEHL.

580. EDUCATIONAL PROBLEMS.—A research course pertaining to problems of instruction, administration, and supervision. Open to seniors and graduate students. Research problems may be carried over two or more terms and a maximum of eight term hours credit may be made in this course. Prerequisite: Education 350. CADE.

433. SEMINAR IN SCHOOL ADMINISTRATION.—A research course dealing with vital problems in school administration chosen by the student for careful investigation and report. Prerequisite: Any of the advanced courses in school administration. From one to three hours credit. Any term. REINOEHL.

COLLEGE OF ENGINEERING

The purpose of the courses is to prepare young men for the profession of engineering. The value of the training acquired in a university course is recognized by railway officials, manufacturers, municipal, state, and federal authorities. The demand in industrial and engineering fields throughout the country is for college graduates.

The graduates of the College of Engineering of the University of Arkansas are scattered over the entire world, occupying positions of trust in foreign lands, in the service of the United States government, in large manufactories, and in state and municipal service, or are building for themselves reputations as professional engineers.

ADMISSION

For a detailed statement of the entrance requirements and a description of the subjects accepted for entrance, see previous pages.

COURSES OF STUDY

The College of Engineering offers through its various departments four-year courses leading to the degrees of *Bachelor of Chemical Engineering* (B. Ch. E.), *Bachelor of Civil Engineering* (B. C. E.), *Bachelor of Civil Engineering in Highways* (B. C. E. in Highways), *Bachelor of Electrical Engineering* (B. E. E.), and *Bachelor of Mechanical Engineering* (B. M. E.); graduate courses leading to the degrees of *Chemical Engineer* (Ch. E.), *Civil Engineer* (C. E.), *Electrical Engineer* (E. E.), and *Mechanical Engineer* (M. E.); and special two-year courses leading to a certificate.

Candidates for the bachelor's degree in engineering must meet the entrance, residence, and registration requirements, and must complete satisfactorily two hundred sixteen term hours as outlined in the following courses of study.

Elective courses will not be given unless as many as five students, who have completed the required undergraduate course, registers for them.

All senior engineering students, accompanied by instructors, are required, during the spring term, to make a visit of inspection to power plants, manufacturing plants, and noted engineering works. All engineering students will be required to spend one week in actual field practice in surveying during the junior year.

REQUIREMENTS FOR DEGREES

ALL ENGINEERING STUDENTS

Freshman Year

		CREDIT HOURS		
		FALL	WINTER	SPRING
Physics	147 (148) (149)	4	4	4
English	131 (132) (133)	3	3	3

	CREDIT HOURS		
	FALL	WINTER	SPRING
Mathematics 151 (152) (153).....	5	5	5
Drawing 121 (122) (123).....	2	2	2
Mechanic Arts 121 (122) (123).....	2	2	2
Military Art 111 (112) (113).....	1	1	1
Mathematics 111 (112) (113).....	1	1	1
	<u>18</u>	<u>18</u>	<u>18</u>

Sophomore Year

Mathematics 251 (252) (253).....	5	5	5
Chemistry 257 (258) (259).....	5	5	5
Drawing 221 (222) (223).....	2	2	2
*Civil Engineering 231 and 225.....	5	5	5
*Mechanical Engineering 230 and 220.....	5	5	5
*Electrical Engineering 231 and 221.....	5	5	5
Military Art 211 (212) (213).....	1	1	1
	<u>18</u>	<u>18</u>	<u>18</u>

CHEMICAL ENGINEERING

Junior Year

Chemistry 354 (355) (359).....	5	5	5
Chemistry 254, 255.....	5	5	..
Mechanical Engineering 321 (322) (323).....	2	2	2
Mechanical Engineering 324 (325) (326).....	2	2	2
**Elective	4	4	9
	<u>18</u>	<u>18</u>	<u>18</u>

Senior Year

Chemistry 434, 435, (436).....	3	3	3
Chemistry 451 (452).....	..	5	5
Electrical Engineering 337, 338.....	3	3	..
Electrical Engineering 327, 328.....	2	2	..
**Elective	10	5	10
	<u>18</u>	<u>18</u>	<u>18</u>

CIVIL ENGINEERING

Junior Year

Heat Power Engineering 341 (321) (343).....	4	2	4
Heat Power Engineering 322.....	..	2	..
Civil Engineering 336, 342, 340.....	3	4	4
Civil Engineering 322, 312, 343.....	2	1	4
Civil Engineering 331 (332) (333).....	3	3	3
Civil Engineering 335.....	..	3	..
Geology 147.....	4	..	..
†Elective	2	3	3
	<u>18</u>	<u>18</u>	<u>18</u>

*These courses are repeated each term and a student is required to take one term of each.

**All electives must be chosen with the consent of the head of the department of Chemistry and the Dean of the College of Engineering. Of these electives 17 hours must be chosen from other courses in chemistry and at least 9 hours in English or a foreign language.

†To be chosen with the advice and consent of the head of the department.

Senior Year

CREDIT HOURS

FALL WINTER SPRING

Civil Engineering 451, 431, 443.....	5	3	4
Civil Engineering 436, 437, 428.....	3	3	2
Civil Engineering 433, 432, 530.....	3	3	3
Civil Engineering 440, 434.....	..	4	3
Civil Engineering 435, 438.....	..	3	3
Civil Engineering 439.....	..	..	3
Economics 546.....	4	..	..
*Elective	3	2	..
	18	18	18

*HIGHWAY ENGINEERING**Junior Year*

Same as Junior Civil Engineering.

Senior Year

Civil Engineering 451, 431, 532.....	5	3	3
Civil Engineering 440, 425, 438.....	4	2	3
Civil Engineering 436, 437, 428.....	3	3	2
Civil Engineering 422, 433, 434.....	2	3	3
Chemistry 441 (442) (443).....	4	4	4
Civil Engineering 430, 439.....	..	3	3
	18	18	18

*ELECTRICAL ENGINEERING**Junior Year*

Electrical Engineering 331 (332) (333).....	3	3	3
Electrical Engineering 321 (322) (323).....	2	2	2
Electrical Engineering 324 (325) (326).....	2	2	2
Mechanical Engineering 321 (322) (323).....	2	2	2
Mechanical Engineering 324 (325) (326).....	2	2	2
Mechanical Engineering 311 (312) (313).....	1	1	1
Mechanical Engineering 331 (332) (333).....	3	3	3
*Elective	3	3	3
	18	18	18

Suggested electives:

English 331 (332) (333).....	3	3	3
Electrical Engineering 334, 434, 435, 436.....	3	3	3
English 534, 535, 536.....	3	3	3
Foreign Language.....	4	4	4
Military Art 531 (532) (533).....	3	3	3

Senior Year

Electrical Engineering 431 (432) 433.....	3	3	3
Electrical Engineering 421 (422) 423.....	2	2	2
Electrical Engineering 424 (425) 426.....	2	2	2
Electrical Engineering 417 (418) 419.....	1	1	1
Electrical Engineering 432, 443.....	..	3	4

*To be chosen with the advice and consent of the head of the department.

	CREDIT HOURS		
	FALL	WINTER	SPRING
Electrical Engineering 531.....	..	..	3
Mechanical Engineering 434.....	3	..	..
Economics 649 (546).....	4	4	..
*Elective	3	3	3
	18	18	18

Suggested electives:

Foreign Language .....	..	..	..
Electrical Engineering 438, 439.....	3	3	..
Military Art 631 (632) (633).....	3	3	3
Economics .....	..	..	..

MECHANICAL ENGINEERING

Junior Year

M. E. 321 (322) (323) Mechanics.....	2	2	2
M. E. 324 (325) (326) Strength of Materials.....	2	2	2
M. E. 331 (332) (333) Heat Power Engineering....	3	3	3
M. E. 327 (328) (329) M. E. Laboratory.....	2	2	2
E. E. 337 (338) (339) Electrical Engineering.....	3	3	3
E. E. 327 (328) (329) E. E. Laboratory.....	1	1	1
M. E. 521 (522) (523) Elem. Machine Design.....	2	2	2
*Elective	3	3	3
	18	18	18

Senior Year

M. E. 434, Mechanical Equipment of Power Plants	3	..	..
E. E. 432, Electrical Equipment of Power Plants....	..	3	..
M. E. 433, Technical Specifications.....	..	..	3
C. E. 343, Hydraulics.....	..	..	4
Econ. 546, Commercial Law.....	4	..	..
Econ. 649, Industrial Management.....	..	4	..
M. E. 431 (432) Heating and Ventilation.....	3	3	..
M. E. 421 (422) (423) Advanced Machine Design..	2	2	2
M. E. 424 (425) (426) Adv. Mechanical Lab.....	2	2	2
M. E. 411 (412) (413) Thesis	1	1	1
*Elective	3	3	6
	18	18	18

GRADUATE AND PROFESSIONAL DEGREES

The regulations concerning these degrees are outlined on a previous page, under the heading of "Graduate Work and Advanced Degrees."

DEPARTMENTAL STATEMENTS

SENIOR THESIS

THESIS.—Each senior or graduate student, candidate for a degree, is required to submit the subject of his thesis not later than December 15, and the completed thesis not later than May

*To be chosen with the advice and consent of the head of the department

10, to a committee consisting of the candidate's major professor and two other members appointed by the dean, for its criticism and approval. All these must be neatly typewritten on one side of plain white paper, $8\frac{1}{2} \times 11$ inches in size, leaving a 1-inch margin. When drawings or diagrams are used they should be made to conform to these dimensions or some multiple of them. The first page of the thesis should contain the title and the following statement:

"Thesis submitted by.....
to the faculty of the University of Arkansas in partial fulfillment of the requirements for the degree of.....,"
and the date. Theses submitted for bachelor degrees must be at last 2,500 words in length.

CHEMICAL ENGINEERING

PROFESSOR HALE, ASSOCIATE PROFESSOR WERTHEIM, ASSISTANT PROFESSOR HUMPHREYS, MR. PORTER

The requirements for a degree are outlined on previous pages.

The courses in chemistry for chemical engineers are described under the Department of Chemistry.

CIVIL ENGINEERING

PROFESSOR STOCKER, ASSOCIATE PROFESSOR SPENCER, MR. MULLIN

The requirements for a degree are outlined on previous pages.

The courses in civil engineering include theoretical instruction accompanied by illustrations and as much of engineering practice as possible. Much time is devoted to practice in the field, drafting room, and laboratory, this work being carried on parallel with the class work. Each year a party of engineering students goes into camp for one week for practice in surveying and railway location. The courses will give the student a knowledge of fundamental principles that will enable him to enter intelligently upon professional practice.

In recent years many problems have arisen in connection with the construction and maintenance of highways, creating a demand for men who have been trained for this particular branch of engineering. The course in highway engineering has been arranged to aid in training engineers for this work.

A well equipped laboratory has been provided for making all the standard tests in accordance with the practice of the United States Office of Public Roads.

A laboratory fee of \$2.00 is charged for the following courses in Civil Engineering: 225, 312, 340, 322, 430, 439, 440.

225. FIELD PRACTICE.—Exercises in the field, including land surveying, leveling, public land surveys, and the adjustment of instruments. Field practice, six hours a week. Prerequisite: Plane Trigonometry. Every term. MULLIN.

231. ELEMENTARY SURVEYING.—General surveying to meet the needs of all engineering students; the care and use of tape, level,

and transit; exercises in the field, including land surveying, leveling, public land surveys, and the adjustment of instruments. Lectures and recitations three hours, field practice six hours. Prerequisite: Plane Trigonometry. Every term. MULLIN.

312, 340. RAILROAD SURVEYING.—Problems and practice in the location of simple, vertical, and transition curves; turnouts, measurements of cuts and fills; setting slope stakes, and making computations for volumes. Prerequisites: 225, 231, 322, 336. Winter and spring. SPENCER.

342. RAILROAD SURVEYING.—Preliminary surveys and location; simple, vertical, and transition curves; turnouts and cross-overs; estimates of earthwork and materials of construction. Prerequisites: 225, 231, 322, 336. Winter. SPENCER.

322. FIELD PRACTICE IN SURVEYING.—Adjustment of instruments, stadia and plain table work. Land, city, and mine surveying. Field practice six hours. Prerequisite: 225, 231. Fall. STOCKER.

331. DRAWING.—Computations and drawing of topographical maps from actual surveys. Drawing practice nine hours. Prerequisite: Drawing 221-223. Fall. SPENCER.

332 (333). DRAWING.—Graphic statics and detail drawing of simple wood and steel roof trusses. Drawing practice nine hours. Prerequisite: Drawing 221-223. Winter and spring. SPENCER.

343. HYDRAULICS.—The theory of hydraulics; principles of hydrostatic and hydrodynamic pressures; steam gauging; water measuring devices. Lectures and recitations three hours, laboratory or computation work three hours. Prerequisite: H. P. E. 321, 322, 341, 343. Spring. MULLIN.

335. HIGHWAYS.—The location, design, construction, and maintenance of earth, gravel, broken stone, concrete, and bituminous macadam roads. Prerequisites: 225, 231, 322, 336. Winter. STOCKER.

336. SURVEYING.—The use, care, and adjustment of level, transit, plane table, and sextant; methods employed in topographic, land, city, mine, and hydrographic surveying; map making and calculations from field notes. Lectures and recitations three hours. Prerequisite: 225, 231. Fall. STOCKER.

436, 437. MASONRY AND REINFORCED CONCRETE.—Stone and brick masonry; plain and reinforced concrete; deep foundations; dams, retaining walls, reinforced concrete structures. Prerequisites: H. P. E. 321, 322, 341, 343. Fall and winter. SPENCER.

428. CONCRETE DESIGN.—Design of reinforced concrete structures. Drawing practice six hours. Prerequisites: 440, 436, 437, H. P. E. 321, 322, 341, 343. Spring. SPENCER.

430. HIGHWAY ENGINEERING LABORATORY.—Tests on gravel and broken stone to determine hardness, toughness, cementing power, and resistance to abrasion; rattler tests and absorption tests on paving brick; tests on sand and clay; inspection of

and tests on bituminous materials. Laboratory six hours. Prerequisite: 335. Winter. SPENCER.

440. ENGINEERING LABORATORY.—Tests to determine strength and other properties of materials of construction; tensile and crushing tests on brick and stone; standard tests on natural and Portland cements; tests to determine the effect of graded and ungraded aggregates on concrete. One hour of recitation and six hours of laboratory. Prerequisite: H. P. E. 321, 322, 341, 343. Fall. SPENCER.

439. ADVANCED SURVEYING.—Problems in triangulation, topographic surveying, precise leveling, and practical astronomy. Prerequisites: 312, 340, 342. Spring. SPENCER.

422. HIGHWAYS.—Proper design, construction, and maintenance of city streets and pavements. Road laws, taxes, bond issues and assessments. Prerequisites: 335, 322, 336. Fall. STOCKER.

451, 431. ROOF AND BRIDGE STRESSES.—Computation of stresses in roofs and bridges, chiefly by analytical methods. Special attention given to the subject of train loads for railroad bridges. Prerequisite: H. P. E. 321, 322, 341, 343. Fall and winter. STOCKER.

435. BRIDGE DESIGN.—Complete design with detailed drawings and estimates of weight and cost of a plate girder bridge. Prerequisites: 451, H. P. E. 321, 322, 341, 343. Winter. STOCKER.

443. BRIDGE DESIGN.—Complete design with detailed drawings and estimates of weight and cost of a riveted or pin connected railroad bridge. Prerequisites: 451-431, H. P. E. 321, 322, 341, 343. Spring. STOCKER.

432. SEWERAGE.—Municipal sewage disposal. Computations of quantities of sanitary and storm sewage, design of separate and combined systems of sewers, design of sewage purification works, and the ultimate disposal of sludge and effluents. Financial, legal, and pathological considerations of sanitation. Prerequisite: 343. Fall. MULLIN.

431. STRUCTURAL DETAILS.—Design of details of steel and timber structures. STOCKER.

433. WATERWORKS.—Public water supplies. Examination of sources of supply, computation of quantities required, design of reservoirs, purification plants, and distributing systems. Financial, legal, and pathological considerations of municipal water supply. Prerequisite: 343. Winter. MULLIN.

425. HIGHWAY BRIDGE DESIGN.—Problems in the design of highway bridges, determination of waterways, construction and maintenance of highway bridges and culverts. Drawing and computation six hours. Prerequisite: 451. Winter. STOCKER.

532. HIGHWAY BRIDGE DESIGN.—A continuation of 425. Spring. STOCKER.

434. ENGINEERING CONTRACTS AND SPECIFICATIONS.—Legal aspects of contract and specification forms, and instruments for

advertisements, proposals, contracts, and bonds; specifications for various kinds of work and materials. Spring. STOCKER.

438. THESIS.—(See SENIOR THESIS on previous pages.) STOCKER.

530. LAND DRAINAGE AND IRRIGATION.—Rainfall and run-off, the survey of drainage basins, the computation of quantities of run-off from drainage basins; the design, location, and construction of drainage courses; the financial and legal considerations of land drainage; benefits derived from land drainage. The sources of water supply for irrigation; the design, location, and construction of irrigation works; the application and duty of the water; the financial, legal, and beneficial consideration of irrigation. Prerequisite: 336, 343. Winter. MULLIN.

531. STRESSES.—In framed structures, by graphical analysis and influence lines. SPENCER.

532. ROAD IMPROVEMENT.—The relation of road and street improvement to social and economic welfare, state, county, and city highway departments, highway and local improvement law, traffic regulation, taxation and methods of financing county roads and city pavements. Spring. STOCKER.

DRAWING AND ARCHITECTURE

PROFESSOR B. N. WILSON, MR. SHELTON

This department teaches the courses in general engineering drawing, and also some elective courses of interest to students in the several colleges.

The work offered in architecture for the school year, 1924-25, is the prescribed work for the junior year of a course that has been outlined as suitable for students interested in Architectural Engineering. The junior work is based on the course of study as shown, in the catalog, for all freshmen and sophomore engineering students.

Drawing

121, 111. MECHANICAL DRAWING.—The selection and care of instruments; lettering, sketching, and working drawings. Fall and winter. Prerequisite: None. WILSON AND SHELTON.

112, 123. DESCRIPTIVE GEOMETRY.—Lectures covering elements of Descriptive Geometry, with assigned problems to be worked out on the drawing board. Some of the assignments make application of Descriptive Geometry to practical problems. Prerequisite: 121. Winter and spring. WILSON AND SHELTON.

221, 222, 223. MECHANICAL DRAWING.—Elementary course including lettering, technical sketching, machine parts, detail and assembly drawing, tracing and blue-printing, perspective and isometric drawing, and empirical machine design. Drawing practice six hours. Prerequisite: 123. WILSON.

224, 225, 226. ARCHITECTURAL DRAWING.—Plans and specifications, details, bills of material, perspective drawing, orders of

architecture. For students expecting to elect only one course in architectural work. Prerequisite: None. WILSON.

227, 228. LETTERING.—Freehand lettering, titles for maps, etc. Drawing practice six hours. Winter and spring. WILSON.

Architecture

331, 332, 333. ELEMENTS OF ARCHITECTURE.—Architectural perspective, shades and shadows, elementary architectural design. Prerequisite: Drawing 123. SHELTON.

321, 322, 323. ARCHITECTURAL DRAWING.—Architectural working drawings. Materials of construction. Prerequisite: Drawing 123. WILSON.

334. BUILDING SANITATION.—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in all types of buildings. Prerequisite: Junior standing. Spring. WILSON.

335, 336, 337. HISTORY OF ARCHITECTURE.—The history of Egyptian, Western Asiatic, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, and Modern Architecture; effects of local, political, and economic conditions on architectural development; influence of climate, materials, structural systems; evolution of architectural forms. SHELTON.

ELECTRICAL ENGINEERING

PROFESSOR GLADSON, PROFESSOR STELZNER, MR. BULLEN

The requirements for a degree are outlined on a previous page.

The courses in this department seek to combine general and technical subjects in such proportions as to furnish a good foundation for the profession of electrical engineering. Sufficient theory is taught in the class-room and illustrated by laboratory experiments to give the student a knowledge of the underlying principles. Shop experience with manufacturing companies to give the student specific practical training is desirable. Such training should be obtained during vacations and after graduation.

A laboratory fee of \$2.00 is charged for the following courses in Electrical Engineering: 221, 321, 322, 323, 327, 328, 329, 421, 422, 423. (See 417.)

231. ELEMENTS OF ELECTRICAL ENGINEERING.—Introductory. Recitations and demonstration on electric and magnetic circuits and machines. Measuring instruments, their use and calibration. Prerequisite: Physics 147-149. Every term. BULLEN.

221. ELECTRICAL ENGINEERING LABORATORY.—To accompany 231. Laboratory four hours. Prerequisite: Physics 147-149. Every term. BULLEN.

331, 332, 333. DYNAMO ELECTRIC MACHINERY.—Direct and alternating current machinery with their general applications. Prerequisite: 231. STELZNER.

321, 322, 323. ELECTRICAL ENGINEERING LABORATORY.—Elec-

trical and magnetic measurements, use and calibration of instruments; testing of direct and alternating current machinery. Four hours a week. To accompany 331-333. STELZNER.

324, 325, 326. ELECTRICAL ENGINEERING DESIGN.—Problems in direct current machinery, calculations and drawing. Four hours. Prerequisite: 231. BULLEN.

334. ILLUMINATING ENGINEERING.—Electric light wiring and different methods of artificial illumination; sources, intensity and distribution of light; physiological and hygienic problems; direct and indirect lighting; reflecting surfaces; illumination and photometric calculations. Prerequisite: 231. Spring. STELZNER.

337, 338, 339. PRINCIPLES OF ELECTRICAL ENGINEERING.—A course for non-electrical students, in direct and alternating current machinery with their general applications. Prerequisite: 231. BULLEN.

327, 328, 329. ELECTRICAL ENGINEERING LABORATORY.—To accompany 337-339. Four hours a week. This course may be taken for one hour credit. BULLEN.

417 (418) (419). THESIS.—(See SENIOR THESIS on previous pages.) GLADSON.

421, 422, 423. ELECTRICAL ENGINEERING LABORATORY.—Laboratory exercises to accompany 431-433. Four hours. STELZNER.

424, 425, 426. ELECTRICAL ENGINEERING DESIGN.—Problems in alternating current machinery, calculations and drawings four hours. To accompany 431-433. BULLEN.

431, 432, 433. ALTERNATING CURRENTS AND ALTERNATING CURRENT MACHINERY.—Lectures, recitations and problems on alternating current circuits and machinery. Prerequisite: 333. STELZNER.

434. TELEPHONY.—The principal systems of telephony in practical use. Prerequisite: General Physics. Spring. BULLEN.

435. WIRELESS TELEGRAPHY.—The principal systems of wireless telegraphy and telephony in practical use. Prerequisite: General Physics. Fall. BULLEN.

436. WIRE TELEGRAPHY.—The principal systems of wire telegraphy; signals and fire alarms. Prerequisite: General Physics. Winter. BULLEN.

437. ELECTRICAL ENGINEERING SEMINAR.—Students who attend and take part in at least three-fourths of the meetings of the University of Arkansas Branch of the American Institute of Electrical Engineers during the junior and senior years, and who prepare and present an acceptable original paper on some engineering subject, will be allowed three term hours of credit.

438. ELECTRIC TRANSMISSION AND DISTRIBUTION OF POWER.—Modern methods of transmission and distribution of electric power. Prerequisite: 431. Fall. Gladson.

439. ELECTRICAL RAILWAYS.—Application of electricity to the propulsion of street cars and railway trains. Selection, equipment, and study of the various systems of electric traction.

Lectures, recitations, and problems. Prerequisite: 333. Winter. STELZNER.

443. HYDRO-ELECTRIC ENGINEERING.—Methods of investigating power possibilities of flowing water, collecting data, selecting power sites, designing dams, power house, transmission lines, and machinery. Prerequisite: 431. Spring. GLADSON.

531. TECHNICAL ELECTRICAL ENGINEERING SPECIFICATIONS.—Correct specifications for electrical machinery and power plant installations. Practice in writing specifications. Spring. GLADSON.

532. ELECTRICAL EQUIPMENT OF POWER PLANTS.—Selection of electrical machinery for power stations; station construction, operation and management. Prerequisite: 333. Winter. GLADSON.

MECHANICAL ENGINEERING

PROFESSOR L. A. WILSON, MR. MORISON, MR. DINWIDDIE,
MR. THOMPSON, MR. HARDGRAVE

The requirements for a degree are outlined on a previous page.

Mechanical Engineers are in demand in various lines of engineering work, such as consulting engineering; power plant designing, constructing, and operating; designing, constructing, erecting, operating, and testing all kinds of machinery; manufacturing, engineering salesmanship; heating and ventilating engineering; and efficiency engineering.

The course in mechanical engineering is designed to give the student a broad foundation in the subjects that are of the greatest importance in his work; a technical education in his chosen field made practical by shop and laboratory courses, and, in electives, a certain amount of specialization and cultural development. It is believed that such a course will enable the student to be of immediate value to his employer and that it will insure certain advancement in his profession.

A laboratory fee of \$2.00 will be charged in the following courses: Mechanical Engineering 220, 327, 328, 329, 311, 312, 313, 424, 425, 426; in Mechanic Arts 121, 122, 123, 124, 125, 510.

121. WOODWORK.—Joinery, use and care of tools, making of patterns and core boxes. Shop practice six hours. Prerequisite: None. Any term. DINWIDDIE.

122. FORGING.—Management of fires; drawing, welding, annealing and tempering of tools. Shop practice six hours. Prerequisite: None. Any term. THOMPSON.

123. MACHINE SHOP.—Bench work on chipping and filing; turning, thread cutting, planing, and grinding. Shop practice six hours. Prerequisite: None. Any term. HARDGRAVE.

124. CARPENTRY.—Especially for students in Agriculture. Use and care of tools, grinding and sharpening edge tools, setting and filing saws. Commercial methods of handling lumber, construction of modern farm buildings; preparing lists of material, plain roof framing, use of steel square. Shop practice six hours. Any term. Prerequisite: None. DINWIDDIE.

125. **FORGE WORK.**—Especially for students of Agriculture. Handling of fires, annealing, drawing and welding. Special problems most suitable for farm work. Shop practice six hours. Prerequisites: None. Any term. THOMPSON.

510, 520 or 530. **ADVANCED SHOP.**—Elective for engineering students who have completed the basic courses. Advanced work in woodwork, forging or machine shop, or a combination of these. Prerequisites: 121, 122 and 123. Every quarter. DINWIDDIE, THOMPSON, AND HARDGRAVE.

230. **ELEMENTS OF MECHANICAL ENGINEERING.**—An introductory course. Elementary heat theory and general information about steam and gas power machinery, and other power plant equipment. Accompanied by 220. Prerequisite: Physics 147-149. Every quarter. MORISON.

220. **ELEMENTARY MECHANICAL LABORATORY.**—Concurrent with 230. Operation and testing of engines and other laboratory apparatus. Study and calibration of testing instruments. Report writing. Every quarter. MORISON.

321, 322, 323. **MECHANICS.**—Mathematical and graphical solutions of problems with forces in equilibrium; problems of motion. Prerequisite: Mathematics 251-253. L. A. WILSON.

324, 325, 326. **STRENGTH OF MATERIALS.**—Mathematical analysis of the stresses in beams and columns under various kinds of loading; supplemented by problems. Prerequisite: Mathematics 251-253. L. A. WILSON.

331, 332, 333. **HEAT POWER ENGINEERING.**—General course, covering the thermodynamic theory of heat and its application to gases and vapors; steam engines and turbines, and internal combustion engines; action of valves and valve gears studied by the aid of valve diagrams; boilers and other power plant equipment. Prerequisites: 230 and Mathematics 251-253. L. A. WILSON.

327, 328, 329. **MECHANICAL ENGINEERING LABORATORY.**—Calibration tests of laboratory instruments; calorimeter tests; power and efficiency tests of steam engines, pumps, turbines and internal combustion engines; boiler tests. Special emphasis on technical writing and form of engineering reports. Concurrent with 331-333. MORISON.

311, 312, 313. **MECHANICAL LABORATORY.**—Especially for Electrical Engineering students. Similar to 327-329. Concurrent with 331-333. MORISON.

521, 522, 523. **ELEMENTARY MACHINE DESIGN.**—Kinematics as applied to link motions, cams, gear wheels and other common parts of machines; formulae of the strength of materials in determining the size of machine elements. Must be preceded or accompanied by 321-323 and 324-326. Design six hours. B. N. WILSON.

421, 422, 423. **ADVANCED MACHINE DESIGN.**—A continuation of 523, with more advanced problems in determining stresses and figuring the size of parts. The latter part of the course is

devoted to the design of the main parts of prime movers. Pre-requisite: 361-363. B. N. WILSON.

431, 432. HEATING AND VENTILATION.—Theory of heat transfer; heat losses; systems used for heating and ventilating buildings; hot air, hot water, steam, and the plenum and vacuum systems; central station and district heating. Principles of refrigeration. Supplemented by practical problems. Prerequisite: 331-333. MORISON.

434. MECHANICAL EQUIPMENT OF POWER PLANTS.—Detailed study of various kinds of power plant equipment; selection of sizes for best economy; design and operation of modern central station for maximum efficiency; heat balance systems. Supplemented by practical problems. Prerequisite: 331-333. Fall. L. A. WILSON.

424, 425, 426. ADVANCED MECHANICAL LABORATORY.—A continuation of 329, with special attention to commercial methods of making tests. Participation in actual commercial tests will be featured if suitable arrangements can be made. Prerequisite: 327-329. MORISON.

411, 412, 413. THESIS.—(As previously described.) L. A. WILSON.

433. TECHNICAL SPECIFICATIONS.—Mechanical Engineering specifications. Prerequisite: 434, E. E. 432. L. A. WILSON.

SHORT COURSE IN ELECTRICAL AND MECHANICAL ENGINEERING

MR. DINWIDDIE, MR. MCKINLEY, MR. STARBIRD, MR. HARDGRAVE,
MR. THOMPSON, MR. BARTON

The following course is offered to students who have at least a grammar school education and who desire to prepare themselves for advancement in the trades, or to become familiar with the care, operation, and repair of some line of machinery. The course is intended to give the student a working knowledge of steam, gas, and electrical machinery, in addition to his shop training.

Upon the satisfactory completion of two years of work, a certificate will be issued.

A fee of \$2.00 per term is charged for the following courses: 121, 122, 123, 44, 45, 46, 42, 43, 62, 63, 64, 41, 53, and for all laboratory courses.

First Year Fall Term

	HOURS	
	RECITATION	PRACTICE
41 Steam Boilers.....	4	3
44 Elementary Electricity.....	4	3
11 Drawing .....	..	6
121 Blacksmithing .....	..	6
14 Arithmetic	4	..
1 Physics	4	2

Winter Term

	HOURS	
	RECITATION	PRACTICE
42 Steam Engines.....	4	3
45 Direct Current Machinery.....	4	3
12 Drawing .....	..	6
122 Woodworking .....	..	6
17 Arithmetic	4	..
2 Physics	4	2

Spring Term

43 Gas Engines.....	4	3
46 Direct Current Machinery.....	4	3
13 Drawing .....	..	6
123 Machine Shop.....	..	6
15 Geometry	4	..
3 Physics	4	2

Second Year

Fall Term

62 Alternating Currents.....	4	3
51 Mech. Equip. of Power Plants.....	4	..
20 Drawing .....	..	6
7 Algebra	4	..
27 Mechanics	4	..

Winter Term

63 Alternating Currents.....	4	3
52 Elec. Equip. of Power Plants.....	4	..
21 Drawing .....	..	6
8 Algebra	4	..
28 Mechanics	4	..

Spring Term

64 Alternating Currents.....	4	3
53 Steam and Gas Machinery and Laboratory.....	4	4
22 Drawing .....	..	6
9 Trigonometry	4	..
*Elective	4	..

*Electric Railways 53.

Electric Transmissions 54.

Illumination 55.

*These electric courses are regular college courses which the short course men are permitted to attend, but with the understanding that no college credit will be given.

ENGINEERING EXPERIMENT STATION

The purpose of the station is to make investigations and study engineering problems of general interest to the people of Arkansas, to serve the mechanical industries of the state, and the urban population, as the agricultural experiment stations of the state serve the rural population, and to solve engineering problems for the agricultural interests of the state.

In addition to the regular Research Staff opportunity is offered to all instructors in the College of Engineering to engage in scientific research in addition to their usual teaching duties.

The Engineering Experiment Station is an organization within the College of Engineering and, therefore, has no separate establishment. The well-equipped laboratories of the several engineering departments are available for use by the Station in its investigations. In addition to these laboratories the Station has equipped a separate fuel testing laboratory with the very best and latest types of apparatus available, which, no doubt, makes it one of the most complete in the Southwest.

The Civil Engineering laboratories are designated by Legislative enactment as the official testing laboratory of the State Highway Commission and at present a plan of co-operation is being worked out by this Commission and the Engineering Experiment Station, whereby the laboratories and services of the station may be employed for tests of all materials used in highway construction within the State.

Investigations being actively carried on at present include the following:

- Study of Coals of Arkansas.

- Survey and Tests of Arkansas Road Materials.

- Study of Water Supplies of Arkansas.

- Relation of Electricity to Agriculture.

- Compilation of Directory of Arkansas Engineers.

The results of all investigations will be published in the form of bulletins and circulars to be distributed free to all who may be interested, and copies may be obtained by anyone upon request.

Suggestions of new investigations, of general interest to the State, by manufacturers, engineers, or other citizens, are earnestly requested.

For further information address Director, Engineering Experiment Station, University of Arkansas, Fayetteville, Ark.

GENERAL EXTENSION DIVISION

ADMINISTRATIVE OFFICERS

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ARTHUR M. HARDING, Ph. D., *Director of General Extension.*
JOHN CLARK JORDAN, Ph. D., *In Charge of High School Debating League.*
WILLIAM B. STELZNER, B. E. E., E. E., M. S., *In Charge of Engineering Instruction.*
JOSEPH J. WEBER, Ph. D., *In Charge of Educational Surveys.*
CHARLES F. ALLEN, B. A., *In Charge of Little Rock Extension Center.*
EVANGELINE PRATT, B. A., *Secretary, In Charge of Correspondence Instruction.*

STAFF

- CHARLES F. ALLEN, B. A., *Instructor in Education.*
E. E. BEAUMONT, *Instructor in Banking.*
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D. Y. THOMAS, M. A., Ph. D., *Professor of History.*

B. N. WILSON, M. M. E., *Professor of Experimental Engineering and Drawing.*

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JOSEPH J. WEBER, Ph. D., *Professor of Secondary Education.*

ELIZABETH P. WILSON, *Instructor in Education.*

DOROTHY YARNELL, M. A., *Instructor in English.*

The purpose of the University of Arkansas is to serve not only a group of qualified resident students, but all the people of the state. To this end the University Extension Service was established, the General Extension Division to represent the Colleges of Engineering, Arts and Sciences, and Education, and the Agricultural Extension Division to represent the College of Agriculture.

The General Extension Division places at the disposal of the people of Arkansas the same opportunities for instruction and culture offered resident students, disseminates the valuable knowledge obtained from research and investigation, and is the medium through which many educational and public service resources outside the state are made available for effective public use.

The activities of the General Extension Division may be classified under the following heads. It should be understood, however, that the services rendered are by no means limited to those mentioned. The scope of the usefulness of the Division extends into new fields whenever an opportunity to be of service presents itself.

CORRESPONDENCE INSTRUCTION.—To those persons who cannot attend the University, the Bureau of Correspondence Instruction furnishes extension courses in vocational, technical and cultural subjects, carrying the same credit as residence courses and supervised by the same instructors. A certificate is granted upon completion of every course. This service is invaluable professionally to teachers, working men, business men, and students working toward a degree, as well as to persons studying for culture alone. A number of preparatory courses are offered for

those to whom high school training is not available or practicable. Any grammar school graduate may enroll in these courses. There are special courses for teachers which they may take in place of teachers' examinations to raise the grade or their certificates, and special reading circle courses, whereby they may get University credit and meet the reading circle requirements at the same time.

CLUB STUDY COURSES.—Subjects which are of greatest interest to the clubs of the state are selected by the General Extension Division, and courses of twelve lessons are prepared on each. Each lesson contains references and questions and forms a complete program for one meeting. If desired, all necessary reference books will be furnished, and year books will be printed for the club.

VISUAL INSTRUCTION.—The Bureau of Visual Instruction functions in a number of ways. It furnishes films for school and community entertainment, circulates free films from various sources, and educational films at cost from the best distributors.

Sets of slides on almost any grammar or high school subject are supplied from the Bureau's own library, and a number of other sets from other sources are distributed.

LECTURES AND ENTERTAINMENTS.—The General Extension Division arranges for lectures and entertainments to be given by prominent professional men and women, ministers, musicians, state officials, and university professors on a wide range of subjects. This service gives business men an opportunity to hear talks by experts in their particular fields; gives women an opportunity to attend lectures of definite interest to them; furnishes speakers and musical programs for special occasions; and serves to extend the educational influence of the University generally, as well as to further community spirit.

At present there is no fund available to cover the expense connected with this service. Consequently the General Extension Division is compelled to charge a small fee, which is the same for all towns in the state so that the towns near Fayetteville have no advantage over those more remote.

LYCEUM COURSES.—The General Extension Division can furnish a limited number of lyceum courses. These courses are offered at cost. Their quality is above the average, many of the number being given by University artists.

In securing other talent, the General Extension Division gets an option on a number of engagements for professional concert companies and entertainments, and acts as a clearing house for these dates. In this way much can be saved on the cost of the local lyceum course.

ARKANSAS HIGH SCHOOL DEBATING LEAGUE.—This organization is for the promotion of the consideration and discussion of present day problems. On account of the great increase in membership in the League, the state has been divided into six districts. In each district preliminary debates are held to elim-

inate to one school. Debates are then held between the three northern districts and between the three southern districts. The two schools which are winners in these debates then send their teams to the University for the final debates and honors.

CLASS STUDY.—Extension classes are organized in any community and in any subject where the enrollment justifies it. These classes are taught by University instructors. The courses given are standard courses, under the supervision of the College under which they fall, and University credit is granted those who complete the work. Class centers have been established at Little Rock, Fort Smith, Batesville, Fayetteville, and North Little Rock.

PUBLIC SERVICE BULLETIN.—The University has on its staff a considerable number of men whose training and years of study enable them to speak with authority on many of the problems with which the state is confronted. The University faculty includes men who are trained in solving intricate problems of taxation and government; men who have made a lifetime study of economics and social problems; specialists in every phase of agriculture; men who know the conditions and the methods necessary to the successful development of manufactures; men who are qualified to lead in the ascertainment of the real facts about the natural resources of the state; men who know about schools, roads, and public health.

In order to get before the people of the state the results of studies and investigations made by members of the University staff, the "Public Service Bulletin" is published at regular intervals. This is part of the general program for the building of a greater state.

The bulletin will be sent to a group of citizens in every county in Arkansas. Any citizen may have his name placed on the mailing list by making application to the General Extension Division.

SOCIAL SURVEYS.—One of the supreme needs of the state is the improvement of rural social conditions. In order that the people of the state may have the facts on which to base an intelligent program for social betterment, the Bureau of Social Surveys has been established. It is the purpose of this Bureau to conduct investigations in the field of rural sociology and rural social organization.

PHONOGRAPH RECORDS.—To cultivate an appreciation and understanding of good music, the General Extension Division sends out sets of the best records, selected by the Department of Fine Arts, making up complete programs, accompanied by suitable lectural material.

CLUB STUDY OUTLINES.—Study outlines are furnished free of charge on subjects of interest to clubs. Lists of references are furnished with these outlines; it is often possible for reference books to be loaned from the General Extension Division.

PLAYS AND RECITATIONS.—To assist in the selection of good

plays, the General Extension Division lends copies from its library of plays from which one may be selected for local use. Readings may be borrowed, copies of the most suitable ones made, and the originals returned. Excellent contest material may be found in these readings.

GENERAL INFORMATION.—The General Extension Division endeavors to answer questions and give information on all subjects. Lists of references and packages of collected material are sent whenever possible. This service is free, and is found invaluable by individuals, clubs, civic societies, and other organizations.

COMMUNITY INSTITUTES.—To secure unified action toward community improvement, the General Extension Division conducts community institutes, designed to make systematic investigation of local problems and to carry on profitable discussion which will lead to the solution of such problems. These institutes consist of one, two, or three-day programs on which appear local people, the best known men and women from the State Departments, clubs and associations, and from the University and other educational institutions. Lectures and illustrated talks are given, demonstrations offered, motion pictures shown, and conferences held. Modern business methods, co-operation between merchant and farmer, public health, city beautification, and similar subjects are considered. "Get together meetings" are held at night, consisting of musical programs, picture shows, home talent plays, informal discussions, and similar things of interest.

SCHOOL SURVEYS.—The College of Education through the General Extension Division, is glad to assist any community in making a survey of its schools. School authorities wishing to compare their local system with national standards can do so through the school survey.

EDUCATIONAL INFORMATION AND ASSISTANCE.—Through the General Extension Division, the College of Education offers its services to any community making an effort to improve its system of public schools. The members of the faculty are ready at all times to address county and city teachers' meetings, women's clubs, and other organizations on educational topics. Any school problem whatever, which may arise, will be carefully considered and capable assistance given.

The Bureau of Tests and Measurements is maintained for the purpose of assisting the school systems of Arkansas in standardizing their work in the various grades. Only a small stock of tests is carried at the University, but the Bureau is ready at all times to put those interested in touch with the proper sources of supply. The Bureau will tabulate results, score papers, when necessary, and publish from time to time bulletins showing the comparative standing of the schools co-operating. The results will be interpreted by experts and recommendations made to the principals and superintendents as to possible changes in curric-

ulum, standards of promotion, or treatment of individual cases.

A Recommendation Bureau is maintained to assist in placing students of the University in teaching positions. This service is free and has proved invaluable in bringing together good situations and suitable teachers.

COLLEGE OF AGRICULTURE

The courses in the College of Agriculture are designed to train men for work in agriculture as farmers, farm managers, county agricultural agents, teachers of vocational agriculture, animal husbandmen, horticulturists, managers of farmers' organizations, marketing agents, research and extension specialists, and various other lines of work now open to graduates of colleges of agriculture; and to train women for work in Home Economics as teachers, vocational teachers in Smith-Hughes schools, county home demonstration agents, dietitians, managers of homes, and similar duties.

ADMISSION

For detailed statement of entrance requirements and descriptions of subjects accepted for entrance, see a previous page.

COURSES OF STUDY

The College of Agriculture offers the following courses:

1. A four-year general course in Agriculture.
 2. A four-year course in Agronomy.
 3. A four-year course in Animal Husbandry.
 4. A four-year course in Dairy Husbandry.
 5. A four-year course in Horticulture.
 6. A four-year course in Plant Pathology. (Requirements on application.)
 7. A four-year course in Agricultural Chemistry. (Requirements on application.)
 8. A four-year course in Entomology. (Requirements on application.)
 9. A four-year combined course in Entomology and Plant Pathology. (Requirements on application.)
 10. A four-year course in Agricultural Education for teachers in Smith-Hughes Vocational Schools, offered in conjunction with the College of Education.
 11. A four-year course in Agriculture for the training of County Agents and other Extension workers.
- All of the courses listed above lead to the degree of Bachelor of Science in Agriculture (B. S. A.). In addition, special short courses in agriculture are offered.
12. A four-year course in Home Economics.
 13. A four-year course in Home Economics for the training

of teachers in Smith-Hughes Vocational Schools offered in conjunction with the College of Education.

14. A four-year course for home demonstration agents.

The last three courses lead to the degree of Bachelor of Science in Home Economics (B. S. H. E.). In addition, special short courses are given for farm women and others.

REQUIREMENTS FOR DEGREES

BACHELOR OF SCIENCE IN AGRICULTURE

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily two hundred and ten credit hours as outlined in the following courses of study. The first two years are considered as foundation years and are the same for all courses in agriculture. The junior and senior years involve more highly specialized work.

Required subjects must be taken in regular order as scheduled. Courses with prerequisites cannot be taken out of their regular order without the consent of the head of the department and the Dean of the College.

Four-Year General Course in Agriculture

Freshman Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 131, 132, 133.....	3	3	3
Chemistry 141, 142, 143.....	4	4	4
Botany 141, 142, 143.....	4	4	4
Trigonometry 131.....	3	..	..
Agronomy 142, (Crops).....	..	4	..
Horticulture 133, (Plant Propagation).....	..	..	3
A. H. 131 (Judging of Market Classes).....	3	..	..
Mech. Arts 125 (Forge Shop).....	..	2	..
Mech. Arts 124 (Wood Work).....	..	..	2
Agr. Eng. 113 (Graphic Methods).....	..	..	1
Military Art 111, 112, 113.....	1	1	1
	18	18	18

Sophomore Year

Chem. 241 (Qualitative Analysis).....	4	..	..
Agr. Chem. 242 (Agricultural Chemistry).....	..	4	..
Chem. 243 (Organic Chemistry).....	..	..	4
Physics 145A (146A).....	4	4	..
A. H. 232 (Poultry).....	..	..	3
Geology 230.....	3	..	..
Agron. 232, 233 (Soils).....	..	3	3
Agr. Eng. 231 (Farm Machinery).....	3	..	..
A. H. 231 (Dairying).....	..	3	..
Agr. Eng. 233 (Practical Farm Drainage).....	..	..	3
Horticulture 231.....	3	..	..
Zoology 132, 143.....	..	3	4
Military Art 211, 212, 213.....	1	1	1
	18	18	18

At the beginning of the junior year the candidate may choose the general course in agriculture, or a major subject in one of the various departments of the College, the choice of which will determine largely his course of study for the junior and senior years.

Students taking any of the major courses outlined on the following pages will choose from courses approved by the candidate's major professor so as to include for the junior and senior year not less than thirty, nor more than thirty-four, credit hours in the major subject.

In the more technical subjects not regularly offered before the junior year, i. e., Bacteriology, Entomology, Plant Pathology, and Veterinary Science, the major professor may advise that a substitution of not more than one-half of the hours required for a major be made from a related technical department. The electives in the junior and senior years must be chosen according to the adopted outline of the major.

General Course

The following course is prescribed for those who desire a general course in agriculture. The electives in this general course in the junior and senior years are subject to approval by the Dean of the College of Agriculture.

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Agron. 331, 332, 333 (Farm Crops).....	3	3	3
Bact. 351 (General Bacteriology).....	..	..	5
Ent. 252 (Economic Entomology).....	5	..	..
A. H. 342 (Breeds and Pedigrees).....	4	..	..
Hort. 332 (Orchard Management).....	..	3	..
P. P. 352 (Plant Pathology).....	..	5	..

Senior Year

Agron. 345, 346 (Soil Fertility).....	4	4	..
Agr. Engr. 442 (Farm Buildings).....	..	4	..
A. H. 352 (Feeds and Feeding).....	..	5	..
Farm Management 431, 432.....	3	3	..
Hort. 330 (Vegetable Gardening).....	..	..	3

Electives junior and senior years, 36 hours, of which 15 hours must be chosen from subjects in the following departments:

Agricultural Chemistry.
 Agricultural Education.
 Agricultural Engineering.
 Agronomy.
 Animal Husbandry.
 Bacteriology.
 Economics.
 Entomology.

Horticulture.

Plant Pathology.

Veterinary Science.

The remainder may be chosen from any department of the College of Agriculture or of the University.

Agronomy Major

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Agronomy 331, 332, 333 (Field Crops).....	3	3	3
Agronomy 345, 346 (Soil Fertility).....	4	4	..
Bacteriology 351.....	..	..	5

Senior Year

Major Courses in Agronomy.....	13
Agr. Eng. 442 (Farm Buildings).....	4
Plant Pathology 352.....	5

Electives in the junior and senior years must include not less than six of the following subjects.

Agricultural Chemistry (341 or 343).

Agricultural Engineering (331 and 333 or 322).

Animal Husbandry (342 or 352).

Bacteriology (543 or 544).

Economics (331-332).

Economic Entomology (252).

Education (246 and 241 or 243).

Farm Management (431-432).

Horticulture (330 or 332).

Plant Pathology (442).

Veterinary Science (341 or 333).

Vocational Education (332) or Practice Teaching.

Additional electives may be chosen from any department of the College of Agriculture or from the following: Economics, Sociology, Public Speaking, Journalism, History, Political Science, Language, or Science.

Animal Husbandry Major

Junior Year

English 331, 332, 333.....	3	3	3
Bact. 351 (General Bacteriology).....	..	..	5
A. H. 342 (Breeds and Pedigrees).....	4	..	..
A. H. 352 (Feeds and Feeding).....	..	5	..
A. H. 331 (Animal Breeding).....	..	..	3
A. H. 321, 322 (Live Stock Judging).....	..	2	2
Vet. Sci. 341, 342, 333 (Veterinary Science).....	4	4	3
Bot. 341 (Genetics).....	4	..	..

Senior Year

Major Courses in Animal Husbandry.....	14
Agr. Eng. 442 (Farm Buildings).....	4
Electives (Junior and Senior).....	40

Electives in the Junior and senior years to include not less than six of the following subjects:

- Agricultural Chemistry (341 or 343).
- Agricultural Engineering (331).
- Agronomy (331 or 332 or 333, 345-346).
- Bacteriology (543).
- Dairy Husbandry (A. H. 333 or 437).
- Economic Entomology (252).
- Economics (331-332).
- Education (246 and 241 or 243).
- Farm Management (431-432).
- Horticulture (323 or 339).
- Poultry Production (A. H. 435).
- Vocational Education (332) or Practice Teaching.

Additional electives may be chosen from any department of the College of Agriculture or from the following: Economics, Sociology, Public Speaking, Journalism, History, Political Science, Language, and Science.

Dairy Husbandry Major
Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Bact. 351 (General Bacteriology).....	..	..	5
A. H. 342 (Breeds and Pedigrees).....	4	..	..
A. H. 352 (Feeds and Feeding).....	..	5	..
A. H. 331 (Animal Breeding).....	..	..	3
Vet. Sci. 341, 342, 333 (Veterinary Science).....	4	4	3
A. H. 341 (Creamery Butter Making and Accounting).....	..	4	..
A. H. 333 (Dairy Stock Judging).....	..	..	3
Bot. 341 (Genetics).....	4	..	..

Senior Year

Major Courses in Dairy Husbandry.....	14
Agr. Engr. 442 (Farm Buildings).....	4
Bacteriology 543.....	4
Electives (Junior and Senior).....	36

Electives in the junior and senior years to include not less than six of the following subjects:

- Agricultural Chemistry (341 or 343).
- Agricultural Engineering (331).
- Animal Husbandry (321-322).
- Agronomy (331 or 332 or 333, 345-346).
- Bacteriology (543).
- Economics (331-332).
- Economic Entomology (252).
- Education (246 and 241 or 243).

Farm Management (431-432).
 Horticulture (323 or 339).
 Poultry Production (435).
 Vocational Education (332) or Practice Teaching.

Additional electives may be chosen from any department of the College of Agriculture, or from the following: Economics, Sociology, Public Speaking, Journalism, History, Political Science, Language, and Science.

Horticultural Major

Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Hort. 330 (Vegetable Gardening).....	..	..	3
Hort. 332 (Orchard Management).....	..	3	..
Hort. 333 (Small Fruits).....	..	..	3
Bot. 341 (Genetics).....	..	4	..
Bact. 351 (General Bacteriology).....	..	..*	5
Ent. 252 (Economic Entomology).....	5	..	..

Senior Year

Elective Courses in Horticulture.....	15
Plant Pathology 352.....	5
Agr. Engr. 442 (Farm Buildings).....	4
Hort. 434, 435.....	6

At least six subjects must be elected from the following list:

Agricultural Chemistry (332).
 Agricultural Engineering (233, 331, 333).
 Animal Husbandry (342, 352, 341, 430, 433).
 Agronomy (331, 332, 333, 345-346).
 Bacteriology and Pathology (544).
 Botany (331, 347, 556, 546).
 Economics (331-332).
 Education (332, 339, 431, 432, 450).
 Entomology (333, 334, 430).
 Farm Management (431, 432).
 French (141-142-143).
 Geology (144, 145, 146).
 German (141-142-143).
 Journalism (537-538-539-, 621-622-623).
 Plant Pathology (444, 435, 436, 447).
 Psychology (246).
 Public Speaking (534, 535, 536).
 Spanish (141-142-143).

Additional electives may be chosen from any subject in the College of Agriculture, or in Economics and Sociology, Education, Public Speaking, Journalism, History, Political Science, Language, or Science.

Agricultural Education Major Junior Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
English 331, 332, 333.....	3	3	3
Education 236 (Psychology of Teaching).....	3	--	--
Education 241 (Teaching Process).....	--	4	--
Education 243 (Principles of Secondary Education).....	--	--	4
Education 332 (Vocational Agri. Education).....	--	3	--
Education 333 (Organization and Administration of Vocational Agriculture).....	--	--	3

Senior Year

Education 432 (Rural Problems).....	3	--	--
Education 431 (Methods and Materials in Agricultural Education).....	--	3	--
Education 450 (Supervised Teaching).....	--	--	5

Electives in the junior and senior years to include not less than eight of the following subjects:

Economics (331-332).
 Agricultural Engineering (322, 442, 331).
 Animal Husbandry (331, 351 or 352, 450).
 Agronomy (331-332-333).
 Bacteriology (351).
 Economic Entomology (252).
 Farm Management (431-432).
 Horticulture (330 or 437).
 Veterinary Science (341 or 332).
 Plant Pathology (352 or 442).
 Agronomy (345-346).

Additional electives may be chosen in any department of the College of Agriculture, or in Political Economy, Sociology, History, English, Languages, or Sciences.

BACHELOR OF SCIENCE IN HOME ECONOMICS

The candidate must meet the entrance, residence, and registration requirements and must complete satisfactorily one hundred ninety-eight credit hours as outlined in the following courses of study. The first two years are considered as foundation years and are the same for all courses in Home Economics. The junior and senior years involve more highly specialized work.

Freshman Year

English 131, 132, 133.....	3	3	3
Chemistry 141, 142, 143.....	4	4	4
H. E. 131, 132, 133 (Elementary Sewing).....	3	3	3
H. E. 136, 137, 138 (Foods).....	3	3	3
Art 134, 135, 136 (Elementary Design).....	3	3	3
Physical Education 111, 112, 113.....	1	1	1
	17	17	17

Sophomore Year

	CREDIT HOURS		
	FALL	WINTER	SPRING
Zoology 241, 242, 243.....	4	4	4
Psychology 140.....	..	4	..
Chemistry 241, 242 or Agri. Chem. 243.....	4	..	4
H. E. 227 (Survey of Home Economics Literature) ..	..	2	..
H. E. 238 (Health and Child Care).....	..	..	3
H. E. 234, 235, 236 (Textiles and Clothing Economics) ..	3	3	3
H. E. 222, 223 (Study of Costume).....	2	2	..
Physical Education 211, 212, 213.....	1	1	1
Electives	3	1	2
	17	17	17

After the second year the student may choose one of the following courses:

*General Course**Junior Year*

Economics or Sociology.....	4	..	..
Modern Language.....	4	4	4
Bacteriology 352.....	5	..	..
H. E. 331, 332 (Food Economics).....	3	3	..
A. H. 430 (Meat and Its By-Products).....	..	2	..
H. E. 324 (Household Problems).....	..	2	..
*Electives .....	..	5	12
	16	16	16

Senior Year

English.....	..	4	4
Modern Language.....	3	3	3
H. E. 441 (House Planning).....	4	..	..
H. E. 442 (House Furnishing).....	..	4	..
H. E. 443 (Social, Legal and Economic Position of Women).....	..	..	4
H. E. 361 (Household Management).....	6	..	..
H. E. 334, 335, 336 (Dietetics).....	3	3	3
*Electives.....	..	2	2
	16	16	16

Vocational Home Economics Teacher-Training Course

The teacher's certificate, in addition to the degree of Bachelor of Science in Home Economics, is granted to all candidates for a degree who complete the following courses. This course is offered by agreement between the College of Education and the College of Agriculture and is designed especially for the training of teachers in Vocational Home Economics in Smith-Hughes Vocational Schools (see College of Education).

Junior Year

Ed. 111, 112, 113 (Principles of Education).....	1	1	1
Economics and Sociology.....	4	..	..
H. E. 331, 332 (Food Economics).....	3	3	..

*See note on next page.

	CREDIT HOURS		
	FALL	WINTER	SPRING
Ed. 335 (Tests and Measurements).....	3	..	..
Ed. 241 (Teaching Process).....	..	4	..
Ed. 243 (Principles of Secondary Education).....	..	..	4
Ed. 341 (Methods of Teaching Home Economics).....	..	..	4
Agr. Eng. 325 (Farm Home Conveniences).....	..	2	..
Bacteriology 352.....	5	..	..
H. E. 324 (Household Problems).....	..	2	..
*Electives .....	..	4	7
	16	16	16

Senior Year

Ed. 350 (Practice Teaching).....	..	5	5
H. E. 361 (Household Management).....	6	..	..
H. E. 441 (House Planning).....	4	..	..
H. E. 442 (House Furnishing).....	..	4	..
H. E. 443 (Social, Legal and Economic Position of Women).....	..	..	4
H. E. 334, 335, 336 (Dietetics).....	3	3	3
*Electives.....	3	4	4
	16	16	16

*Home Demonstration Course**Junior Year*

Economics or Sociology.....	4	..	..
H. E. 331, 332 (Food Economics).....	3	3	..
H. E. 531 (Millinery).....	..	..	3
H. E. 324 (Household Problems).....	..	2	..
Hort. 330 (Vegetable Gardening).....	..	..	3
A. H. 232 (Farm Poultry Culture).....	..	..	3
A. H. 430 (Meat and Its By-Products).....	..	2	..
*Electives	9	9	7
	16	16	16

Senior Year

H. E. 361 (Household Management).....	6	..	..
H. E. 441 (House Planning).....	4	..	..
H. E. 442 (House Furnishing).....	..	4	..
H. E. 443 (Social, Legal and Economic Position of Women).....	..	..	4
Agri. Econ. 521 (Extension Methods).....	..	2	..
Agri. Eng. 325.....	..	..	..
H. E. 334, 335, 336 (Dietetics).....	3	3	3
*Electives	3	7	9
	16	16	16

DEPARTMENTAL STATEMENTS

AGRICULTURAL CHEMISTRY

PROFESSOR READ, ASSOCIATE PROFESSOR SURE

Agricultural Chemistry deals mainly with the changes occurring in the soil, the growth and life of plants, animal nutrition,

*To be chosen on advice of major professor. A maximum of 12 hours in music will be given as credit toward the degree of Bachelor of Science in Home Economics, including the first year's work. Not more than 6 hours may be taken in any one year.

and the preparation of food products. The development of agriculture is calling for an ever-increasing number of chemists. Educational and commercial positions are open to both men and women, and there is an ever-growing demand and abundant opportunity for teachers, for investigators, and for professional agricultural chemists. The courses offered are planned to give the student in agriculture or home economics a broad view of the subject and to provide the proper training for instructional and experimental work in the various fields of chemical activity as applied to agriculture.

230. VITAMINS AND "DEFICIENCY DISEASES."—The newly discovered food factors vital to the growth of bodily tissues and the maintenance of health, considered as to their properties; relative abundance in different foods; stability in canning, preserving, etc.; requirements in daily diet; relation to certain diseases and early senility. The mineral and the protein requirements for normal nutrition. Three lectures a week. Prerequisites: none. READ.

242. QUANTITATIVE AGRICULTURAL CHEMISTRY.—General survey of chemistry in its relation to soils, fertilizers, manures, and feeding stuffs. Two lectures and two laboratory periods. Prerequisite: Chemistry 241. Winter. Fee, \$4.00. READ.

243. AGRICULTURAL CHEMISTRY AS APPLIED TO THE HOME.—A very practical course dealing with the composition and nutritive value of the fats, carbohydrates, and proteins; proprietary infant foods; baking powders; household remedies, and disinfectants; toilet preparations; and the chemistry of laundering, cleaning, and polishing agents, paints, varnishes, and fuels. Lectures and recitations, three hours; one laboratory period. Prerequisite: Chemistry 241. Spring. Fee, \$2.00. READ.

245. ANALYSIS OF FOODS.—The application of quantitative methods employed in the analysis of the more common foods, and practice in testing for the presence of adulterants, preservatives and artificial coloring. Lectures and recitations two hours; laboratory six hours a week. Prerequisite: Chemistry 241. Winter. Fee, \$4.00. READ.

341. BIOCHEMISTRY.—A general course dealing with the organic and inorganic compounds found in plants and animals and the chemical changes involved in such processes as metabolism and growth. Lectures and recitations four hours. Prerequisite: Organic Chemistry 242. Fall. READ.

343. PRINCIPLES OF NUTRITION.—Special emphasis placed on the chemistry and physiology of carbohydrate, fat, protein and mineral metabolism, and the dietary requirements for maintenance, growth, and reproduction. Prerequisite: Chemistry 242. Fall or spring. READ.

331. CHEMISTRY OF DAIRY PRODUCTS.—The composition and complete analysis of milk, butter, cheese, and other dairy products. The chemistry of fermentation. One lecture and two

laboratory periods. Prerequisite: Chemistry 241. Spring. Fee, \$3.00. READ.

332. CHEMISTRY OF INSECTICIDES AND FUNGICIDES.—The preparation, composition, and analysis of the more important insecticides and fungicides. Two lectures and one laboratory period. Prerequisite: Chemistry 242. Fall. Fee, \$4.00. READ.

333. PLANT CHEMISTRY.—The chemistry and classification of plant constituents; the vital processes involved in growth and nutrition; and the chemistry of the manufacture of certain plant products. Two lectures and one laboratory period. Prerequisite: Chemistry 242. Winter or spring. Fee, \$3.00. READ.

431 (432) (433). AGRICULTURAL CHEMISTRY RESEARCH.—Special problems assigned to advanced students majoring in Agricultural Chemistry. Credit: one to three hours each term. READ.

AGRICULTURAL EDUCATION

(Under the joint supervision of the Dean of the College of Agriculture and the Dean of the College of Education.)

Courses 236, 241, 243, 332, 333, 350, 431, 432, as outlined in the College of Education, are required for completion of the Agricultural Education group. This, in addition to a degree in Agriculture, entitles graduates with state certificates to teach in the high schools, upon application. The group in Agricultural Education is designed primarily for teachers, but graduates of any other group who have had the professional courses required in this group are eligible as teachers of Vocational Agriculture in the high schools of the state, under provision of the Smith-Hughes Act.

AGRICULTURAL ENGINEERING

PROFESSOR CARTER, MR. BARR

(Under the joint supervision of the Dean of the College of Agriculture and the Dean of the College of Engineering.)

This department offers instruction involving the application of engineering principles to farm problems. The most important of these problems are (1) the construction, adjustment, operation, and selection of modern farm implements and power machinery; (2) the drainage and terracing of farm lands; (3) the selection, operation, and installation of modern home conveniences; and (4) the study of planning and construction of sanitary and convenient farm barns, dwellings, and other buildings.

113. GRAPHIC METHODS.—The use of curves, charts, diagrams, and illustrations in the graphical representation of agricultural information. Actual plotting and charting is done in the laboratory. Instruction is also given in the use and care of drawing instruments; lettering and drafting, as a prerequisite to later courses. Three hours laboratory. No prerequisite. Spring. Fee, \$0.50. CARTER.

231. FARM MACHINERY.—MECHANICS OF FARM MACHINES.—Materials of construction, simple machines, transmission of power; the construction, adjustment, care and use of machines used on the farm. Two hours recitation, three hours laboratory. No prerequisite. Fall. Fee, \$2.00. BARR.

233. PRACTICAL FARM DRAINAGE.—Farm drainage, including use of instruments, mapping, land descriptions; designs, location, and construction of drainage systems; soil erosion and terracing. One recitation, six hours laboratory. Prerequisites: Trigonometry and Soils. Spring. Fee, \$1.00. CARTER.

322. FARM HOME CONVENIENCES.—Sewage disposal; farm water supply; house heating; gas and electric lighting; farm light and power plants. Two recitations. No prerequisite. Winter. CARTER.

325. FARM HOME CONVENIENCES.—Similar to 322, arranged for women students. Two recitations. No prerequisite. Winter. CARTER.

331. FARM MOTORS.—Operation, care, repair, and adjustment of gas and oil engines, and their application to farm work. Carburetion, ignition, and lubrication. Two recitations, three hours laboratory. Prerequisite: Farm Machinery. Fall. Fee, \$2.00. BARR.

333. ADVANCED FARM POWER.—Construction, care, and repair of tractors; operation; field work; belt work; tractor investigations. Testing and operation of stationary engines. One recitation, six hours laboratory. Prerequisite: Farm motors. Spring. Fee, \$2.00. BARR, CARTER.

442. FARM BUILDINGS.—Planning of farm buildings with regard to economy, appearance, conveniences, and strength. Laboratory work includes complete plans and details of some farm buildings; with material lists, cost estimates, blue prints and specifications. Two recitations, six hours laboratory. Prerequisite: Graphic Methods. Winter. Fee, \$1.00. CARTER.

423. FARM BUILDING CONSTRUCTION.—Materials and tests. Cement and concrete, hollow tile and brick construction. Fireproofing; study of frame construction work; combined lecture and practice work. Two two-hour periods a week. Prerequisite: 113, Mech. Arts 124, and junior standing. Spring. Fee, \$1.50. CARTER.

425. FARM SHOP MECHANICS.—The mechanics of the farm shop, including farm repairs, soldering, pipe fitting, babbitting, knots, and splices. Combined lecture and recitation. Two two-hour periods per week. Prerequisites: Mechanic Acts 124, 125. Fee, \$1.00. Winter. BARR.

AGRONOMY

PROFESSOR NELSON, ASSOCIATE PROFESSOR SACHS, ASSISTANT PROFESSOR OSBORN, ASSISTANT PROFESSOR McCLELLAND,
ASSISTANT PROFESSOR WARE, MR. AUSTIN

The courses are designed to meet the requirements of: (1)

students who desire a knowledge of the subject as a part of a general education; (2) students who are interested especially in farm operations, or the management of land; (3) students who desire a technical knowledge of the subject as a preparation for teaching, or graduate or research work.

142. AGRONOMY.—Crops (cotton, corn, small grains, clovers, grasses, forage, and miscellaneous crops), including varieties, strains, quality, the use of score cards; identification of seed grasses, clovers, alfalfa, other legumes, and forage crops; weed seed, characteristic adulterants. Stress placed upon the staple crops. Lectures and recitations two hours, laboratory four hours. No prerequisite. Winter. Fee, \$1.00. McCLELLAND.

212. COTTON CLASSING.—The relative value of cotton grades and the factors that determine them, with practical exercises in classing and stapling. Open to any student in the University in the sophomore, junior, or senior classes. Students in Agronomy 431-432 may not take this course. Winter. Fee, \$2.00. WARE.

232 (233). SOILS.—The origin, formation, physical properties, and classifications of soils; soil moisture, its movements and methods of control, drainage, tillage, checking erosion; relation of different physical properties of soil to moisture holding capacity, temperature and aeration, with special reference to soil management. Lectures, recitations, and laboratory three hours. Prerequisites: 142 and Chemistry 141-143. Winter and spring. Fee, \$2.00 each term. SACHS, AUSTIN.

322. SEED TESTING AND EXAMINATION.—The purity and quality of seeds, factors affecting germination, identification of weed seeds, use of germinators for official and for home testing. Laboratory practice two periods. Winter. OSBORN.

331. FARM CROPS.—A thorough study of corn, including germination tests, planting, cultivation, harvesting, storing, improvement, fertilization, rotation; station work, varieties, commercial grading, and marketing. Prerequisites: 142, 233. Fall. NELSON.

332. FARM CROPS.—The small grains, including varieties, adaptation, culture; rotation practices; crop improvement; station work; commercial grading, and marketing. Prerequisites: 142, 233. Winter. NELSON.

333. FORAGE CROPS.—Forage crops, including grasses, clovers, alfalfa, annual legumes and other forage crops; adaptation, utilization, culture, possibilities and methods of improvement; purity and germination tests; weeds and weed control. Prerequisite: 142, 233. Spring. NELSON.

345 (346). SOIL FERTILITY.—Crop requirements; nature and sources of plant foods; exhaustion of soils, maintenance and increase of fertility; green manures, farm manures and commercial fertilizers; biological life of soils, with special attention to the nitrogen problem and liberation of mineral plant foods; rotations and effect of different systems of farming on productivity of the soil, based on a study of the older field

experiments. Lectures, recitations, and laboratory four hours. Prerequisite: 233. Fall and winter. Fee, \$3.00 each term. SACHS, AUSTIN.

337. SOIL CLASSIFICATION.—To familiarize the student with the methods and practice of soil survey work. The important soil types with special reference to Arkansas and the South in general. Lectures and field practice three hours. Prerequisite: 232-233. Spring. Fee, \$2.00. SACHS.

321. EXPERIMENTAL METHODS.—Conception and statement of problems, planning experiments, suitable land or conditions, purpose and use of checks, possibility and probability of error. Methods of record keeping, tabulation and graphic representation of results. Fall. Prerequisite: 333, 346, 431. McCLELLAND.

323. JUDGING AND GRADING.—Factors determining the official grades of corn, rice, small grains, hay, and other crops. Judging of exhibition and market samples, practice in commercial grading. Spring. Laboratory practice two periods. McCLELLAND.

431. COTTON PRODUCTION.—An advanced course in the production of cotton. Origin, history, production, composition, and cropping systems. Practical work: the form and structure of the cotton plant and fibre, identification of various groups, and variety studies in the field. Lectures and laboratory three hours. Prerequisites: 142, 233. Fall. WARE.

432. COTTON HANDLING.—Continuation of 431. Cotton improvement by selection and breeding; harvesting, storing, and marketing. Laboratory work: "Cotton classing" and "stapling." The government standards used for comparison in classing. Lectures and laboratory three hours. Prerequisites: 142, 233. Winter. Fee, \$3.00. WARE.

433. PLANT BREEDING.—The practical application of the principles of variation and heredity to the breeding of general farm crops. Special attention to the practical breeding of corn, cotton, small grains, and forage crops. Lectures and recitations four hours. Open to seniors only. Prerequisites: 331, 431, genetics. Spring. WARE.

435. ADVANCED SOIL PHYSICS.—A study of mechanical analysis, concentration of the soil solution, soil heat, and other physical properties of the soil. Laboratory, conferences, and reports. Prerequisite: 233. Fall. Fee, \$3.00. SACHS.

437. ADVANCED SOIL FERTILITY.—A more intensive study of some of the important changes taking place in the soil, i. e., ammonification, nitritation, nitrification, sulfonation. Laboratory, conferences, and reports. Prerequisite: 346. Spring. Fee, \$4.00. SACHS.

444. FIELD MANAGEMENT.—Crop and soil adaptation, methods of tillage and their effects, effects of different types of farming. Harmful practices, balanced systems, practical rotations, use of legumes, manures, composts, and commercial fertilizers in general farm practice. Soil preservation and reclamation, correc-

tive measures, prevention of erosion, effects of and disposal of surplus moisture, weed eradication, significance of seed selection, improved varieties, and seed breeding. Fall. Open to seniors. NELSON.

421, 422, 423. RESEARCH.—Research work in special problems designed for advanced and graduate students. One to three hours a week. Fee, \$1.00 to \$3.00 a term, according to number of hours taken. NELSON.

ANIMAL HUSBANDRY AND DAIRYING

PROFESSOR DVORACHEK, ASSISTANT PROFESSOR MASON, ASSISTANT PROFESSOR STOUT, ASSISTANT PROFESSOR MARTIN, ASSISTANT PROFESSOR SANDHOUSE, MR. WILBANKS

The live stock and poultry owned by the department are used to familiarize the student with the various types and breeds. Students interested in dairying have an opportunity to study the operations in a commercial creamery run by the department.

131. JUDGING TYPES AND MARKET CLASSES.—Practice in scoring types and market classes of sheep, swine, cattle, and horses, using the score card, followed by comparative judging. Emphasis given standardization and grading in marketing live stock. Lectures and recitations one hour, laboratory six hours. No prerequisites. Fall. SANDHOUSE, MASON.

231. FARM DAIRYING.—The composition of milk, causes of variation in composition, abnormal milk and its causes, bacteria in milk products, the lactometer, Babcock testing, milk separation, farm butter making, handling dairy products on the farm, and marketing dairy products. Lectures and recitations one hour, laboratory six hours. Prerequisites: Chemistry 141-143. Winter. Fee, \$3.00. MASON, WILBANKS.

232. FARM POULTRY CULTURE.—The principles of the following subjects in the order given: Breeds, housing, feeding, breeding, incubation, brooding, poultry products, diseases, management, and marketing. Lectures and recitations three hours. No prerequisites. Spring. STOUT.

321. JUDGING BREED TYPES OF SHEEP AND SWINE.—Scoring and comparative judging of breed types of sheep and swine. Breed characteristics given special attention. Animals from the college herds supplemented by livestock owned by neighboring breeders used for class work. Laboratory six hours. Prerequisites: 131, 342. Winter. MARTIN.

322. JUDGING BREED TYPES OF BEEF CATTLE AND HORSES.—Scoring and comparative judging of breed types of beef cattle and horses. Breed characteristics given special attention. Animals from the college herds, supplemented by livestock owned by neighboring breeders used for class work. Laboratory six hours. Prerequisites: 131, 342. Spring. MARTIN.

323. POULTRY JUDGING.—Scoring, and judging by comparison standard breeds and varieties of poultry for show room and

utility. Birds from the college flocks and those entered in the Arkansas State Egg Laying Contest used for class work.. Laboratory six hours. Prerequisite: 232. Fall. STOUT.

331. ANIMAL BREEDING.—The principles and the various systems of animal breeding; the application of the principles of genetics to practical animal breeding. Prerequisite: Genetics Bot. 341. Spring. MARTIN.

333. DAIRY STOCK JUDGING.—Scoring and comparative judging of breed types of dairy cattle. Classification of animals in the show ring. Required of students competing for place on dairy judging team. Laboratory nine hours. Prerequisites: 131, 342. Spring. MASON.

341. CREAMERY BUTTER MAKING AND ACCOUNTING.—The principles of creamery butter making; construction, care, and equipment of creameries; methods of sampling and grading cream; pasteurizing; starter making; cream ripening; creamery accounting; creamery management; and marketing of product. Lectures and recitations two hours, laboratory six hours. Prerequisite: 231. Every term. Fee, \$3.00. WILBANKS.

342. BREEDS AND PEDIGREES.—The origin, history, development, breed characteristics, and adaptation of the more important breeds of horses, beef cattle, dairy cattle, swine, and sheep. Pedigree work with prominent individuals of the various breeds. Prerequisite: 232. Fall. MASON, MARTIN.

352. FEEDS AND FEEDING.—The principles of animal nutrition, digestibility of feeds, composition, value, and preparation of feeds; use of silos; selection of feeds for balanced rations, and the economical feeding of all classes of farm animals. Prerequisite: Agricultural Chemistry 241 or Chemistry 242. Winter. DVORACHEK.

420. HANDLING POULTRY AND EGGS FOR MARKET.—Poultry fattening, dressing, storage, and shipping. Egg candling, storage, grading, packing, and handling for market. Lectures and recitations two hours. Prerequisite: 232. Fall. STOUT.

421. MARKET MILK AND DAIRY INSPECTION.—Different classes of market milk, transportation, storage, marketing, and accounting. Practice in the use of score cards for inspecting milk plants, dairy farms, and creameries. Lectures and recitations one hour, laboratory three hours. Prerequisites: 231, Bact. 351. Spring. MASON.

422. JUDGING DAIRY PRODUCTS.—Judging market milk, butter, cheese, and other dairy products. Laboratory six hours. Prerequisite: 231. Spring. Fee, \$3.00. MASON, WILBANKS.

430. MEAT AND ITS BY-PRODUCTS.—The slaughtering and dressing of meat animals; meat cutting, curing, and utilization of meat by-products. Lectures and recitations two hours, laboratory three hours. Lectures and recitations can be taken for two credits by Home Economic students. Elective only for junior and senior students. Winter. SANDHOUSE.

431. ADVANCED LIVE STOCK JUDGING.—Show ring judging of

breed types and market classes of sheep, swine, beef cattle, and horses. Required of major students training for live stock judging contests. Laboratory nine hours. Prerequisites: 131, 342, 321, 322. Fall. MARTIN.

432. LIVE STOCK PRATICUMS.—Practice in the feeding, care, and management of live stock. Designed to train students in the handling of live stock on the farm and in the show ring. Laboratory nine hours. Prerequisites: 342, 352. Winter. SANDHOUSE, MASON.

433. PORK PRODUCTION.—An advanced course in pork production and marketing from the standpoint of both the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Winter. SANDHOUSE.

435. POULTRY PRODUCTION.—An advanced course in poultry production. Practical work in incubation, brooding, chick raising, and flock management. Lectures and recitations one hour. Laboratory six hours. Prerequisite: 232. Winter. Fee, \$3.00. STOUT.

436. BEEF PRODUCTION.—An advanced course in beef production and marketing from the standpoint of both the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Winter. MARTIN.

437. MILK PRODUCTION.—Dairy farm management and the marketing of dairy farm products, from the standpoint of both the farmer and the special dairyman. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Fall. MASON.

438. MUTTON AND WOOL PRODUCTION.—An advanced course in mutton and wool production, from the standpoint both of the farmer and the special breeder. Problems assigned in management, supplemented by collateral reading of experimental data. Lectures and recitations three hours. Elective only for major and graduate students. Spring. SANDHOUSE.

439. ICE CREAM AND CHEESE MAKING.—Ice cream and ices. Preparation of materials used in their manufacture for home use and sale. Various kinds of cheeses. Cheddar cheese making and curing for home use and sale. The commercial manufacture of ice cream and cheddar cheese for retail and wholesale trade. Lectures and recitations one hour, laboratory six hours. Prerequisites: 231, 341. Spring. Fee, \$3.00. WILBANKS.

450. ANIMAL PRODUCTION.—A general course in the feeding, breeding, care, and management of horses, beef cattle, swine, and sheep. The equipment necessary for practical production of animals will also be considered. Lectures and recitations

four hours, laboratory three hours. Prerequisite: 352. Spring. DVORACHEK.

423 (424) (425). ANIMAL HUSBANDRY AND DAIRY RESEARCH.—Senior students majoring in Animal Husbandry or Dairying, and graduate students may, with the consent of their major professor, elect this course. Special problems assigned. Not more than two credits a term allowed. DVORACHEK.

BACTERIOLOGY AND PATHOLOGY

PROFESSOR BLEECKER

The courses in bacteriology are so arranged as to give the student an understanding of the morphology, distribution, and physiological activities of micro-organisms and their economic relation to agriculture and the home, including sanitation and public health.

351. GENERAL BACTERIOLOGY.—Elementary bacteriology so designed as to give the student an understanding of the morphology, classification, and physiological activities of bacteria. Recitation three hours and laboratory six hours a week. Prerequisites: Chemistry, 242; Botany, 141 and 142. Spring. Fee, \$3.00. BLEECKER.

352. HOUSEHOLD BACTERIOLOGY.—Introductory study of the morphology, classification, and physiological activities of bacteria, yeasts, and molds is followed by a study of sanitation and the relation of these micro-organisms to the home. Recitation three hours and laboratory six hours a week. Prerequisites: Chemistry 242, Zoology 241, or Botany 141. Fall term. Fee, \$3.00. BLEECKER.

543. AGRICULTURAL BACTERIOLOGY.—The bacteria of the soil and water, and those of milk and milk products. Recitation two hours and laboratory four hours a week. Prerequisite: Bacteriology 351 or 342. Winter. Fee, \$5.00. BLEECKER.

544. PATHOGENIC MICROBIOLOGY.—Disease producing micro-organisms, the diseases they produce, their dissemination and control. Recitation two hours and laboratory four hours a week. Prerequisite: Bacteriology 351 or 342. Winter. Fee, \$5.00. BLEECKER.

510, 540. SPECIAL PROBLEMS.—An elective course in bacteriology. Definite problems under direction of the instructor, selected from either pathogenic, dairy, or soil bacteriology. The amount of credit depends upon the problem selected and the time necessary to complete it. Prerequisite: Bacteriology 351 or 352. Fall, winter or spring. Fees, none. BLEECKER.

ENTOMOLOGY

PROFESSOR BAERG, ASSOCIATE PROFESSOR ISELY

The courses are concerned with insects and their near relatives; their habits and life histories, the recognition of the more important species and groups, and the remedial and preventive

measures for the forms that destroy crops, transmit disease, and annoy man and domestic animals.

131. NATURE STUDY—ANIMAL LIFE (Zoology 131).—(Given jointly with the Department of Zoology.) The part of the course dealing with fishes, amphibia, reptiles, and mammals is given by the Department of Zoology; the part dealing with birds and the more common insects is given by the Department of Entomology. Intended for students interested in the out-of-doors, and those intending to teach. Lectures two hours, field trip 3-4 hours. Prerequisite: none. Spring. Fee, \$2.00. BAERG.

252. GENERAL ECONOMIC ENTOMOLOGY.—All the important orders of insects, including the common insect pests of farm, garden, and orchard, as well as the common parasites of domestic animals and the insects that annoy man. Lectures, three hours; laboratory, six hours. Prerequisite: none. Fall. Fee, \$2.50. BAERG.

333. INSECTS AND DISEASE.—Insects and other Arthropods that annoy man and animals and are concerned in the transmission of diseases. Lectures, two hours; laboratory, two hours. Prerequisites: 252, or Zoology 144, 145, and 146, or Zoology 232-243. Winter. (Given in alternate years. Not offered in 1924-1925.) Fee, \$2.00. BAERG.

334. ECONOMIC ENTOMOLOGY.—FRUIT AND TRUCK CROP INSECTS.—Detailed study of life history and control of the more important insects attacking fruit and truck crops. Lectures and recitations, two hours; laboratory, two hours. Prerequisite: 252. Alternates with 335. Winter. (Not offered in 1924-1925.) Fee, \$2.00. ISELY.

335. ECONOMIC ENTOMOLOGY.—FIELD CROP INSECTS.—Detailed study of the life history and control of the more important insects attacking field crops. Lectures and recitations, two hours; laboratory, two hours; credit, three hours. Prerequisite: 252. Winter. Fee, \$2.00. Alternates with 334. ISELY.

336. SYSTEMATIC ENTOMOLOGY.—The classification of insects with special reference to the more important economic groups. Laboratory, two hours for one credit hour; credit, two, three, or four hours a term. Spring. Fee, 75 cents for each credit hour. (Not offered in 1924-1925.) ISELY.

338. MORPHOLOGY OF INSECTS.—Study of the external anatomy of insects. Must be preceded or accompanied by 252. Laboratory, six hours. Fall. Fee, \$2.00. BAERG.

Upon sufficient demand, advanced courses will be given in Systematic Entomology, Morphology of Insects, and Economic Entomology.

FARM MANAGEMENT

PROFESSOR. McNAIR

This department offers courses in Farm Management, Agricultural Organization, and Marketing. The object is to acquaint the student thoroughly with the business side of agriculture,

especially the organization and operation of the farm as a business unit. It deals with the factors of cost of production, with questions of leases and tenantry, and other applications of Agricultural Economics. Each subject matter course in other departments in the College of Agriculture teaches the ordinary processes of marketing each product. The Department of Farm Management teaches only those subjects in marketing which are general in their application.

431-432. FARM MANAGEMENT.—General principles of farm management, choice of farm, types of farming, farm organization and administration, factors and cost of production, records, and accounts. Lectures and problems. Also visits to farms. Fall and winter. MCNAIR.

HOME ECONOMICS

PROFESSOR PALMER, ASSISTANT PROFESSOR BOWMAN, ASSISTANT PROFESSOR PLUNKETT, MISS NELSON, MISS JOHNSON, MISS HANSEN, MISS GWATHMEY, MISS REQUA

131 (132) (133). ELEMENTARY CLOTHING.—Designed to give skill in using and caring for sewing machines, in taking accurate measurements, and in adapting commercial patterns. The comparison and selection of materials for their appropriateness, as well as for their economic value. Lecture one hour and laboratory five hours each week. Art 134-136 parallel or prerequisite. Fee, 50c each term. NELSON, PLUNKETT.

134 (135). ELEMENTARY CLOTHING.—The same as above, but adapted to the needs of students offering an admission unit in sewing. Art 134-136 parallel or prerequisite. Fee, 50c each term. NELSON.

136 (137) (138). FOODS.—The principles involved in the selection and preparation of foods, with special stress on the chemistry and nutritive value of the foodstuffs. The lecture work includes manufacture and composition of commercially prepared foods; the laboratory work applies scientific principles of preparation. Lecture one hour and laboratory four hours. Prerequisite or parallel: Chemistry 141, 142, 143. Fee, \$5.00 each term. JOHNSON, PALMER.

221 (222) (223). STUDY OF COSTUME.—The principles of design and color harmony applied to costume. A short history of costume. Lecture one hour, laboratory two hours. Prerequisite: Art 134, 135, 136. Fee, \$1.00 each term. REQUA.

227. SURVEY OF HOME ECONOMICS LITERATURE.—Lecture and recitation two hours a week. Winter. JOHNSON.

235. TEXTILES.—The source of supply, structure, manufacture, and relative value of fabrics. Laboratory practice in weaving, in the identification of fibers, and the analysis of fabrics; special methods of laundering and dyeing. Lecture one hour, laboratory four hours a week. Prerequisites: 131-132-133; Chemistry 141-142-143. Winter. Fee, \$1.00. BOWMAN.

234 (236). CLOTHING ECONOMICS.—The technique and princi-

ples of costume designing and their practical application in the design and construction of garments; the use by each student of patterns drafted by herself to her own measurements. Lectures and laboratory, six hours a week. Prerequisites: 131-132-133, Art 134-135-136. Fall and spring. Fee, \$1.00 each term. NELSON.

238. HEALTH AND CHILD CARE.—The fundamental principles of personal hygiene and the home care of the sick. Special consideration to the care, feeding, and training of children in the home. Lecture three hours, laboratory two hours. Spring. Fee, \$1.00. PLUNKETT.

323. ADVANCED FOOD PREPARATION.—An elective course for those who desire special training in the preparation of attractive dishes for each course in the meal. Two three-hour laboratory periods. Prerequisites: 136, 137, 138. Spring. Fee, \$5.00. PLUNKETT.

324. HOUSEHOLD PROBLEMS.—Lighting, heating, plumbing, care of equipment, and dispatching of duties in the home. A theoretical course to prepare the student for the home experience she will obtain through practice house work. Lecture, two hours. Prerequisites: 136, 137, 138. Fall. JOHNSON.

331 (332). FOOD ECONOMICS.—The food problems of the household, including food preservation, the cost and nutritive value of food materials, their combination in typical meals, the preparation and service of meals, and dietetic requirements of individual members of the family group. Lecture one hour, laboratory four hours. Prerequisites: 136, 137, 138. Fall and winter. Fee, \$5.00 each term. PLUNKETT.

334 (335) (336). DIETETICS.—The fundamental principles of human nutrition as applied to the feeding of individuals under normal conditions and under pathological conditions chiefly depending upon diet. Lecture and recitation two hours, laboratory two hours. Prerequisites: 331, 332, Zoology 241, 242, 243, Chemistry 242, or Agricultural Chemistry 243. Fee, \$4.00 each term. PLUNKETT.

337 (338). ADVANCED CLOTHING.—Principles of garment construction and tailoring and their practical application in the construction of a tailored suit or coat by each student. Additional problems involving special technique. Lecture one hour and laboratory five hours a week. Prerequisites: 234, 235, 236, 221, 222, 223. Fee, \$1.00 each term. NELSON.

361. HOUSEHOLD MANAGEMENT.—The social, economic, and practical problems of home management. The laboratory work consists of the actual care of the house and the performing of all household duties such as budget making, accounting, marketing, preparation of daily meals, and a study of their dietary value and cost. Lectures and recitations two hours, laboratory as arranged. Students live in practice house one term. Prerequisites: 324, 331, 332. Fee, living expenses borne by students. JOHNSON.

441. HOUSE PLANNING.—A study of the situation, sanitation, and construction of the house and the application of the principles of design to exteriors and the cost of building and maintenance. Laboratory includes the making of floor plans and elevations. Lecture two hours. Laboratory four hours. Prerequisite: Art 134, 135, 136. Fall. Fee, 50c. GWATHMEY.

442. HOUSE FURNISHING.—The principles of design and color applied to the interior decorating and furnishing of a home; problems in costs. Lecture, two hours; laboratory, four hours. Prerequisite: 441. Winter. Fee, 50c. GWATHMEY.

443. SOCIAL, LEGAL, AND ECONOMIC POSITION OF WOMEN.—A history of the development of woman's standing in the family and community; biographical study of women leaders in scientific fields; laws pertaining to women and children. Lectures and recitations four hours a week. Open to seniors. Prerequisite: Economics or Sociology. Spring. NELSON.

531. MILLINERY.—The designing and drafting of patterns for different types of hats, including the principles underlying their construction and trimming. A model of each type made by each student. Lecture one hour and laboratory four hours. Open to sophomores. Spring. Prerequisites: 131, 132, 133 or 134, 135, and Art 134, 135, 136. Fee, \$1.00. NELSON.

511 to 541. SPECIAL PROBLEMS.—The student may elect some special problem in the major subject for research. Conferences with the instructor. Open to seniors and graduate students. Fall, winter, or spring. Palmer. HANSEN.

For Home Economics Methods (Education 341) see College of Education.

Home projects during the summer vacation will be planned in all courses where necessary to meet individual needs.

HORTICULTURE

PROFESSOR COOPER, ASSISTANT PROFESSOR RAPP, MR. ROWLAND

The courses offered are designed to give the student a thorough knowledge of the principles and practices of the various phases of horticulture. The work is so arranged that it will meet the needs of students interested in its practical application, or of students who desire a technical knowledge of the subject as a preparation for college teaching or research work.

133. PLANT PROPAGATION AND NURSERY PRACTICES.—The methods of reproducing and multiplying fruits, vegetables, ornamentals, shade and forest trees. Construction and use of hotbeds and coldframes. General nursery and garden practices. One hour lecture, six hours laboratory. Prerequisites: Botany 141-142. Spring. Fee, \$1.00. ROWLAND.

231. PRINCIPLES OF FRUIT GROWING.—The general principles involved in propagation of fruits, planning, planting, and operating home and commercial orchards. Every phase of orcharding and fruit growing and all problems confronting the practical orchardist. Actual practice in pruning, mixing, and applying

sprays, and in harvesting, packing and storing fruit. Two hours lecture, three hours laboratory. Prerequisites: Botany 141-142-143. Fall. Fee, \$1.00. COOPER.

330. VEGETABLE GARDENING.—The general principles of vegetable growing and the practical problems involved in handling the various crops, with special emphasis upon farm, home, and back yard gardens; cultural methods; varieties; plant growing; soils and fertilizers; insect and disease control, and harvesting. Actual practice in gardening operations. Two hours lecture, three hours laboratory. Prerequisites: Botany 141-142-143. Spring. Fee, \$1.00. RAPP.

332. ORCHARD MANAGEMENT.—The cultural methods best adapted to different kinds of fruit, including types of soils, air and water drainage, soil fertility, fertilizers, cover and companion crops, and the theory and practice of pruning. Two hours lecture, three hours laboratory. Prerequisite: 231. Winter. COOPER.

333. SMALL FRUITS.—Grapes, cane fruits, and strawberries. Conducted in such manner that the students will have thorough knowledge of how such fruits should be handled to obtain the best results from both home and commercial production. Two hours lecture, three hours laboratory. Prerequisite: 231. Spring. ROWLAND.

334. FARM FORESTRY.—Identification of trees and woods. Woodlot management. Log scaling and estimating timber. Selecting and marking trees for thinning. Replanting. Preserving wood. Two hours lecture, three hours laboratory. Prerequisites: Botany 141-142-143, Horticulture 330. Winter. ROWLAND.

335. SYSTEMATIC POMOLOGY.—The systematic classification, nomenclature, history, origin, and adaptability of each of the various fruits, with practical work in judging. Two hours lecture, three hours laboratory. Prerequisites: 231, 332, 333. Fall. Fee, \$2.50. COOPER.

431. POTATO PRODUCTION.—Production, handling, and storage of sweet and Irish potatoes. Two hours lecture, three hours laboratory. Prerequisites: 131, 330. Fall. RAPP.

432. MARKET GARDENING.—Vegetable gardening with special reference to the Arkansas trucking crops; methods of growing and handling, cantaloupes, watermelons, cucumbers, tomatoes, sweet potatoes, Irish potatoes, radishes, beans, etc.; fertilizers, special cultural methods, insect and disease control, harvesting, grading, packing, storage, and refrigeration. Two hours lecture, three hours laboratory. Prerequisites: 133, 330. Winter. RAPP.

434. LANDSCAPE GARDENING.—A general consideration of the principles of landscaping with special attention to city and suburban properties, and the engineering work incidental thereto. The student will prepare maps and plans; and also become familiar with the more commonly used plant materials. Two hours lecture, three hours laboratory. Prerequisites: Agricultural Engineering 113, Botany 141-142-143. Fall. Fee, \$1.00. ROWLAND.

435. LANDSCAPE GARDENING II.—Continuation of 336 with special attention being paid to the farmstead, country school grounds, and the treatment of country roads. The requirements and care of trees, shrubs, vines and flowering plants will be taken up, as well as their habits of growth and uses in landscaping. Two hours lecture, three hours laboratory. Prerequisite: 336. Winter. Fee, \$1.00. ROWLAND.

436. LANDSCAPE GARDENING III.—Special problems such as playgrounds, city parks, street planting, civic centers, country cross-roads, etc. The propagation, use, and care of some of the less commonly known planting materials will be given special attention. Practical experience in identification, planting and transplanting will be given during this term. Two hours lecture, three hours laboratory. Prerequisites: 336, 337. Spring. Fee, \$1.00. ROWLAND.

437. SPRAYING AND SPRAY MATERIALS.—To give a thorough practical knowledge of insecticides and fungicides and methods of application, together with practice in operating the various kinds of spraying machinery and equipment. Two hours lecture, three hours laboratory. Prerequisites: 133, 231. Spring. Fee, \$2.50. COOPER.

441. HARVESTING AND REFRIGERATION.—The general principles in harvesting, grading, packing, storing, and shipping fruits for market. Methods of handling fruit and all the operations concerned. Storage, refrigeration, and transportation. Different orchards, packing houses, storage houses, and loading stations, will be visited, and construction, operation, and methods studied. Two hours lecture, six hours laboratory. Prerequisites: 231, 232. Fall. Fee, \$2.50. COOPER.

530. EVOLUTION OF CULTIVATED PLANTS AND PLANT BREEDING.—Organic evolution as applied to the modification of plants, particularly of cultivated fruits and vegetables, together with the history of the plants and a study of their environment and original habits. The application of genetics to breeding of horticultural crops. Two hours lecture, three hours laboratory. Prerequisites: 133, 231, 335, Botany 341. Spring. Fee, \$1.50. COOPER, RAPP.

531, 532, 533. EXPERIMENTAL HORTICULTURE.—Assigned problems in horticulture, collecting and compiling of experimental data. Laboratory problems, and work in experimental projects in the station fields, and at other points where experimental work is being conducted by the Department. Assigned only to students with sufficient fundamental preparation. Credit: 1-3 hours. COOPER.

536. HORTICULTURAL PRACTICUMS.—Practice in the different phases of fruit and vegetable production. Designed to give students a working knowledge of the different operations involved and to train them in the Art of Horticulture. COOPER, RAPP, ROWLAND.

PLANT PATHOLOGY

PROFESSOR YOUNG, ASSOCIATE PROFESSOR ROSEN

The courses are designed to give the student a knowledge of the origin, causes, and methods of control of plant diseases both in practical use and as a preparation for special research work in plant pathology. The advanced courses may be elected by students choosing Plant Pathology or Botany as a major.

352. *PLANT DISEASES*.—Diseases of plants in relation to parasites and environment; conditions inducing disease, the reaction of diseased organisms, and the methods of disease control. Lectures and recitation three hours. Laboratory four hours. Prerequisite: Botany 141-143. Winter. Fee, \$3.00. YOUNG, ROSEN.

442. *MORPHOLOGY OF FUNGI*.—The forms and structure of fungi. Lectures and recitations one hour, laboratory eight hours. Prerequisites: Botany 141, 213. Fall. Fee, \$3.00. YOUNG.

435, 436, 437. *PLANT PATHOLOGY METHODS*.—The preparation of various artificial nutrient media and the technique of isolating and culturing parasitic fungi and bacteria. Emphasis placed on bacteria in relation to plant diseases. Lectures and recitations one hour, laboratory four hours. Prerequisites: 352, Bacteriology 351. Fee, \$2.00 each term. ROSEN.

521 (522) (523). *PLANT PATHOLOGY RESEARCH*.—A special problem to be assigned only to students who take Plant Pathology as a major. Prerequisite: 435-437. YOUNG, ROSEN.

Upon sufficient demand, courses will be offered in Poisonous and Edible Fungi, Diseases of Forest Trees, and Pathological Plant Anatomy.

VETERINARY SCIENCE

ASSOCIATE PROFESSOR SCHILLING

341. *COMPARATIVE ANATOMY*.—To give a general idea of the development and structure of the different domesticated animals during embryonic life and until maturity, so as to understand the benefits to be derived from proper breeding and care of farm animals. Prerequisite: None. Fall. SCHILLING.

342. *ANIMAL PHYSIOLOGY*.—To give a useful knowledge of the functions of the body in the various farm animals, so as to understand the benefits to be derived from the judicious application of proper breeding, feeding, and care of farm stock. Prerequisite: 341. Winter. SCHILLING.

333. *ANIMAL DISEASES*.—Infectious and non-infectious diseases, their causes, symptoms, and prevention; lameness, its causes, diagnosis, prevention and cure; obstetrics; simple surgery; State and Federal live stock regulations. Prerequisites: 341 and 332. Spring. SCHILLING.

AGRICULTURAL TRAINING COURSE

A course is offered to trainees of the United States Veterans' Bureau, which is intended to give sufficient knowledge and prac-

tice in agriculture and related subjects to fit them to operate a farm in dairying, fruit, truck, general crops, poultry or other live stock. Although primarily intended for trainees of the United States Veterans' Bureau, other mature persons who have at least a grammar school education may enter this course. An outline of the course will be furnished upon request.

AGRICULTURAL EXPERIMENT STATION

PURPOSE

The purpose of the Experiment Station is to determine facts, work out problems, and make investigations that have a bearing upon the agriculture of the state and the country in general. The results of investigations are published in bulletin form and distributed free. All information in possession of the various departments of the institution is available to citizens of the state upon request. The farmer is in this way relieved of the time, labor, and expense involved in working out experiments for himself. He also receives the benefit of facts that only the best trained specialists are capable of determining. Practically all of the agricultural information that we possess and put into practice is based upon experiment station efforts. The results of the Experiment Station work constitute a large part of the foundation for the work of the Division of Agricultural Extension work.

STAFF

The working staff of the Experiment Station is practically identical with the teaching force of the College of Agriculture. Members of the staff are required to do both teaching and research work in their respective fields. The work of the station is continuous throughout the year. Research work constitutes the major burden of the staff.

The *Department of Agricultural Chemistry* carries on investigations dealing with the application of chemistry to agriculture. Its laboratories are fitted with improved modern apparatus and equipment. Its investigative work is chiefly concerned with the chemistry of soils, feedstuffs, foods, fertilizers, spray materials, and the chemistry of animal and of plant nutrition.

The *Department of Agricultural Economics* is conducting investigations, in co-operation with the United States Department of Agriculture, in systems of farming in Arkansas, farm management problems in Arkansas, labor requirements for different crops, cost of production, and similar subjects. This Department was first established in 1920. As its duties increase, other work of investigational nature, including the subject of

rural organization, co-operative organizations, and marketing, will be undertaken.

The *Department of Agricultural Engineering* is conducting investigations on the subjects of farm machinery, farm buildings and other structures, farm motive power, farm drainage, terracing, fencing, and other problems.

The *Department of Agronomy* carries on investigations with farm crops, testing and breeding new and pure varieties of cotton, corn, grains, grasses for hay and pasture, clovers, and other agricultural crops. It also conducts experiments in soil fertility and the management of soils for different crops. This work is carried on at the experimental farms, the main station, and the sub-station. A special feature is the work with cotton and corn at the sub-station at Scott.

The *Department of Animal Husbandry* carries on investigations in the feeding, breeding, and management of farm animals, including poultry. Well selected herds of dairy cattle, beef cattle, and hogs are maintained for this purpose. A well equipped and well stocked poultry plant is also maintained. In connection with this department, a model dairy, equipped with improved dairy machinery and laboratories, is conducted for instructional and experimental purposes.

The *Department of Bacteriology* conducts investigations and research relative to the causes and character of animal diseases and the means of combating them.

The *Department of Entomology* conducts investigations in the life histories of insects injurious to agriculture and the methods of exterminating such insects.

The *Department of Horticulture* is equipped with grounds, machinery, and laboratories suitable for conducting experiments in fruit growing and vegetable gardening. Problems of practical importance are worked upon experimentally to aid the grower in his cultural work. Variety study of fruits and vegetables, pollination of the apple, orchard fertilization, pruning, grading, and packing are major projects for experiments in this department.

The *Department of Plant Pathology* carries on investigations of plant diseases with reference to their nature, cause of development, and means of combating and eradicating them.

The *Department of Veterinary Science* supervises state inspection for contagious diseases of animals and for the eradication of cattle tick. It operates the state serum plant and supplies serum at cost; it investigates also the best means of prevention and control of diseases of animals.

AGRICULTURAL EXTENSION DIVISION

DAN T. GRAY, *Director.*

T. ROY REID, *Assistant Director.*

R. L. FOSTER, *Editor.*

MISS V. CRAIG, *Assistant Editor.*

COUNTY AGENT WORK

J. C. BARNETT, *District Agent.*

J. E. MCKELL, *District Agent.*

H. K. THATCHER, *District Agent.*

E. B. WHITAKER, *District Agent.*

COUNTY FARM DEMONSTRATION AGENTS

T. W. BAILEY

E. S. BARRENTINE

K. V. BOOTH

BYRON W. BUTLER

S. D. CARPENTER

J. E. CRITZ

J. B. DANIELS

E. P. DARGAN

H. G. DASHER

W. S. DELANEY

JULIAN M. DYER

W. D. EZELL

J. H. GAYER

BEN F. GREER

JOHN HACKETT

W. L. HALL

J. A. HEARN

O. L. HENDERSON

B. S. HINKLE

W. S. HOUSTON

C. S. JOHNSON

RAY D. JOHNSTON

STEELE KENNEDY

SAM KNOX

J. E. MARBUT

O. L. McMURRAY

WYATT MIMS

W. A. OWENS

J. L. PHILLIPS

A. H. PRINCE

C. C. RANDALL

A. P. REYNOLDS

A. M. RODGERS

J. W. SARGENT

WM. F. SCARBOROUGH

A. F. SCHEID

EARL W. SMITH

LYDLE P. SMITH

B. A. SPRADLIN

M. SULLIVANT

D. H. THOMASON

J. M. THOMASON

W. A. TRUSSELL

C. M. TUGGLE

G. C. WATKINS

H. M. WALKER

F. C. WARREN

PAUL L. WELLS

F. H. WHITAKER

HOME DEMONSTRATION WORK

MISS CONNIE J. BONSLAGEL, *State Home Demonstration Agent.*

MISS ALICE BRIDGES, *District Agent.*

MISS SALLIE CHAMBERLAIN, *District Agent*

MRS. FRANCES COOPWOOD-FOREMAN, *District Agent.*

MISS ELLA POSEY, *District Agent.*

COUNTY HOME DEMONSTRATION AGENTS

ADRIAN, PERMELIA
ALEXANDER, ALMA
ALLEN, MINNIE T.
BETTS, JENNY
BLACKFORD, BEATRICE
BLAKELY, MAE
CASTLEBERRY, GENEVA
COLEMAN, CORA LEE
COOPER, MARY
DEDEN, LILLIAN
EMERSON, MAUREE
FENTON, MRS. IDA
FERRILL, FLORA
GILLETTE, HELLEN
GILLETTE, HELEN
GRIFFIN, HELEN
HAWKINS, VIVIAN
HOBBS, HELEN
JACKSON, MRS. ZELIA
KING, HARRIET B.
LUSJER, JULIA

MASHBURN, LILY
McCONNELL, VIRGINIA
MELTON, MATTIE
NORWOOD, GLADYS
OWENS, ADDIE M.
OWENS, LENA
PEARCE, ODESSA
PHILLIPS, MARCELLE
PRICE, NELLIE
PYLE, GOLDA E.
RANDLEMAN, DOLLIE
SANDERSON, KITTIE
SNELLING, BERTHA
SPRADLING, MRS. B. A.
TATUM, MRS. BIRD
TEMPLE, MRS. ELIZABETH
THACKSTON, MABEL
TRUSSELL, MRS. SARAH
TURNER, MRS. MINNIE C.
WATSON, MRS. MYRTLE

CLUB WORK

W. J. JERNIGAN, *State Boys' and Girls' Club Agent.*

SPECIALISTS

MISS GERTRUDE CONANT, *Foods and Nutrition.*
F. D. CROOKS, *Poultry.*
H. W. WOODLEY, *Dairying.*
C. WOOLSEY, *Horticulture.*
MISS RUBY MENDENHALL, *Food Preservation.*
M. W. MULBROW, *Livestock.*
MISS EM S. PATTY, *Textiles and Clothing.*
A. D. McNAIR, *Farm Management.* (U. S. Dept. of Agr. co-operating.)
E. A. HODSON, *Marketing.*

NEGRO WORKERS

H. C. RAY, *District Agent.*
MARY L. RAY, *District Agent.*
LUGENIA BELL
R. T. BUTLER
ANNA HALL
C. C. HARAWAY
WM. HARRIS
DORA B. HOLMAN
ANNIE LATIMER
A. M. MASON
E. T. MATTISON
MARY McCAIN

EULA McGEHEE
H. B. MITCHELL
CARRIE MOORE
MONTIE MOORE
J. D. RICE
ANNIE SMITH
T. D. SPEARS
J. W. VINES
ALICE WINSTON

AGRICULTURAL EXTENSION SERVICE

PURPOSE.—The Agricultural Extension Service forms the third main division of the College of Agriculture—resident teaching, research work, and extension work. The object of extension work is to disseminate among the people the most practical information obtainable on all subjects relating to agriculture and home economics, and to encourage the adoption by farmers and their families of the practices recommended. One of its chief functions is to take the results of the State Experiment Station and its branches to the people and thoroughly to disseminate the information thus obtained. Agricultural Extension work deals with the problems of practical and economic production, marketing, and the organization of agriculture as a business and as a life occupation.

SOURCES OF MAINTENANCE.—The Division of Agricultural Extension is supported jointly by the College of Agriculture of the University of Arkansas and the United States Department of Agriculture under the provisions of the Smith-Lever Act passed by Congress in June, 1914. In addition to the federal funds appropriated by the College of Agriculture for conducting extension work, and the state funds appropriated as an offset to the federal appropriations, the Department of Agriculture, through the State Relations Service, has allotted to the Division of Extension certain sums to be used in the furtherance of the work.

SCOPE OF WORK.—The Agricultural Extension Service endeavors to reach the maximum number of farms and homes of the state. This is done through county farm demonstration agents and county home demonstration agents. These county agents work through community clubs and other rural organizations. They hold extension schools and conduct demonstrations in dairying, poultry, live stock, field crops, horticulture, terracing and drainage, marketing, foods and nutrition, food preservation, and clothing and textiles. The basis of all of this work is the demonstration conducted on the farm or in the home under the personal directions of the county extension agent. The work of the agents is strengthened by the supervision of state and district agents and by the help of subject matter specialists.

FARM DEMONSTRATION WORK.—The farm demonstration work is conducted by county agents who are trained in the science of agriculture and who have had practical experience in conducting farm operations. The demonstrations in soil improvements, crops, horticulture, livestock, marketing and other such subjects are adapted to the needs of the county and are part of a long time plan of agricultural development within the county. Timely information regarding production and marketing is disseminated through newspaper articles, circular letters and bulletins. Other effective aids to the improvement of farm conditions are applied as conditions make them practicable and profitable.

HOME DEMONSTRATION WORK.—Sustained programs in home

demonstration are developed under the guidance of the county home demonstration agent. In conference with the agent, groups of women and girls in a community decide on the demonstrations or projects they wish to undertake during the year. These, when compiled, go to make the county program. Those activities most often presenting problems to the housewife are (1) horticulture, (2) poultry, (3) home dairy, (4) nutrition and child care, (5) food preservation, (6) textiles, and (7) household management and equipment.

Strong community and county organizations aid materially in the projection of these programs in that (1) they enable the agent to instruct groups largely instead of individuals, (2) they develop leadership and (3) they give a degree of permanency to the work in a county.

BOYS' AND GIRLS' CLUB WORK.—Specialists in club work are provided for the proper supervision of the boys' and girls' club work and to assist the county agents in organizing and properly developing this work. This service is designed to teach boys and girls the simplicity of ways of improving the farm and home, to open up to them a brighter view of the future, and to inspire them with the desire to remain on the farm and develop it to its fullest possibilities. This may be classed as the initial step in the teaching of agriculture and home economics in that it reaches boys and girls between the ages of ten and eighteen, before they have had the opportunity to secure such training in the schools and colleges.

SUBJECT MATTER SPECIALISTS.—The work of the county farm and home demonstration agents is strengthened by the assistance given them by subject matter specialists. These specialists are trained in some one particular line, such as marketing, horticulture, livestock, dairying, poultry, foods and nutrition, food preservation, or clothing and textiles. The specialists aid the county extension agents in developing special lines of work and in conducting the more difficult demonstrations. Assistance of the specialists may also be had in working out some particular phases of agricultural work in counties where there are no county extension agents.

EXTENSION SCHOOLS.—In season it is intended that the Extension Service through farmers' meetings shall reach every county in the state. Special campaigns along lines of greatest importance are organized and promoted in season. This work is pushed at times when farm work is the lightest.

MARKETING SERVICE.—Specialists in marketing are provided to assist farmers in securing markets for their products, and to give instruction in successful methods of handling the farmers' marketing problems. This is an educational service designed to bring the producer and the buyer into touch with each other, but the Division of Extension takes no further part in consummating sales. The marketing service goes further in that it encourages the organization of groups of farmers for the production of

various products in carload lots, and gives instruction in the proper grading and packing of fruits and other farm products. The marketing of any farm product will be included in the activities of this sphere of extension work.

LIVESTOCK.—The introduction of purebred animals and the grading up of farm herds and flocks is a means being used to increase the average value of the farm animals of the state, which is now very low. Demonstrations in feeding and management, culling of herds and flocks, and in co-operative marketing of farm livestock are conducted. Boys' pig, calf, and sheep club work is an important phase of the general livestock work.

HORTICULTURE.—Large areas of the state are devoted to fruit and truck crops. Assistance is given this industry through demonstrations in spraying, pruning, cultivating and fertilizing these crops. The dissemination of information leading to the control of insects and diseases affecting these crops, the production of a higher quality product and the proper grading and packing for markets is done through farmers' meetings, method demonstrations, newspaper articles, and special circulars and bulletins.

Demonstrations of the farm home garden, the canning crop garden, the home orchard and simple landscaping of yard and lawn, squares and parkways, constitute the work in horticulture undertaken by the county home demonstration agent. In all of this work she is given able assistance by the specialist.

DAIRYING.—Assistance in securing better animals, in establishing bull clubs, in cow testing and economical milk production work is given to farmers and farmers' organizations interested in this industry, which is rapidly developing in the state at the present time.

A scarcity of milk in the diet of town and country families is one of our most serious nutrition problems. (1) More cows and better cows, (2) improved feeding and housing conditions, (3) care of milk, (4) improved practices in the making of cheese and butter for home use, cover the demonstrations in home dairy work. The specialist renders help with this work and with "more milk" campaigns inaugurated in town or counties.

POULTRY.—A flock of poultry is common to almost all farms of the state. The culling of flocks, the placing of standardbred eggs and fowls on farms, demonstrations in feeding farm flocks, keeping records of flocks and certifying standardbred flocks are carried on. Boys' and girls' poultry clubs are an important part of this work.

The care of the poultry on the farm falls to the lot of the women and girls as a rule. They turn to the home demonstration agent naturally for help in meeting the problems incident to this work. Demonstrations in (1) better housing, (2) better feeding, (3) culling for egg production, (4) securing standardbred chickens and (5) co-operative marketing of surplus products are remedial measures undertaken with success. The poultry specialist gives much of his time to assisting the home demon-

stration agents with projecting this work over the state. With the girls and boys a program of demonstration covering four years is followed.

FOODS AND NUTRITION.—The weighing, measuring and medical examination of children bring home to our people the relation between food and health. Demonstrations in proper food selection go a long way toward making popular the farm garden work (with greens all the year), the food preservation work, and the home dairy program. With the girls a four-year program in cookery has been worked out. A nutrition specialist gives her full time to this phase of the home demonstration program.

FOOD PRESERVATION.—The object of this work is three-fold: (1) It prevents the waste of surplus garden and orchard products during the months of plenty, (2) it insures a year's supply of these same products at small cost, (3) it provides the necessary variety in the diet, and (4) it offers a source of income for the farm woman and girl.

An increasing number of our people are planting with a view to canning for profit.

A five-year companion program to the garden work is carried on in canning by club girls who select this phase of the work. A full-time specialist assists the county home demonstration agent with this program.

TEXTILES AND CLOTHING.—The large number of requests for help with (1) testing and selecting materials, (2) use and alteration of patterns, (3) garment construction, (4) good taste in dress, and (5) hat making led to the building of a program around these problems. Here again the girls have a program of demonstrations covering four years. A full-time specialist assists the agents with this work.

FARM MANAGEMENT.—Preliminary surveys of farms in some sections of the state have shown that the profits are far from what they should be. Farm management studies naturally should be one of the foremost in agricultural teaching. Proper investigation of farm management conditions and the teaching of the best methods of farm management are of utmost importance. This work is provided for through the employment of a specialist in farm management.

DRAINAGE AND TERRACING.—Assistance is furnished farmers in dealing with their problems of drainage by open ditches, tile drainage, and similar methods, as well as by the direction, maintenance, and handling of terraces to prevent washing of hillsides.

AGRICULTURAL NEWS SERVICE.—Agricultural facts must be placed before the people. The co-operation of the press is utilized by supplying to the papers of the state weekly paragraphs on better farming. Special articles dealing with seasonal topics are prepared for the county papers. Special articles for the daily papers of the state are prepared in order that facts may be brought before a large number of people. Further than this

the Extension Service issues publications from time to time which are available to the people of the state upon application.

SUMMER TERM

The thirteenth summer term of the University will open June 16, 1924, and close July 26, 1924.

The attendance on the University Summer School now almost touches one thousand—a larger number than is found in the average summer school in the United States. The report of the United States Commissioner of Education shows that the cost of attending the session is only slightly more than two-thirds of the cost of attending such a summer session in the average schools of like grade.

Courses in preparatory and college subjects will be offered by a faculty composed almost wholly either of heads of departments in the various faculties of the University, or of experts of recognized ability from other states. A model school will be conducted for the demonstration of the best methods of teaching in the primary and grammar grades. The University Training High School will be in session and will be in the hands of some of the best superintendents of schools in Arkansas. One unit of entrance credit may be secured by attending the summer school. A limited amount of practice teaching may be done. Several experts in Rural School Methods and Management, Plays and Games, Public School Music, Industrial Work for the Grades, and other such subjects have been secured so that the University will offer a number of complete courses especially designed to meet the needs of rural teachers.

Courses completed in the summer term will be credited toward a degree, providing that entrance requirements have been met. Ten term hours is the maximum that may be earned at any one session. It should be noted that by attending several summer terms a student's college course may be shortened to three or three and a half years.

Courses for freshmen in all of the four colleges of the University (Arts and Sciences, Agriculture, Education, or Engineering, will be offered, and graduates of high schools are particularly urged to begin their college work in June instead of September. Courses will be offered this summer in all three phases of Smith-Hughes work in vocational education, namely in agriculture, home economics, and in industrial arts.

All the facilities of the College of Agriculture and of the state experiment station are open to the Smith-Hughes men in agricultural education, and all the men teaching these courses in the high schools of the state are required to attend by the federal government.

Each year sees an increasing number of courses offered for

graduate study. Several students have completed the required work for their Master's degree by summer work.

More detailed information in regard to the courses offered, matriculation, and registration, may be had from the Summer Term Bulletin, which will be sent upon request. Address requests for information to the Director of Summer School, University of Arkansas, Fayetteville, Arkansas.

SCHOOL OF MEDICINE

HISTORY

The School of Medicine was organized at Little Rock in 1879. In 1911 it was consolidated with the College of Physicians and Surgeons, and by an Act of the General Assembly became the School of Medicine of the University of Arkansas.

ADMISSION

Admission requires a four-year high school education, and, in addition, two years of college work as set forth below.

HIGH SCHOOL REQUIREMENTS

Four years' work in an accredited high school or its full equivalent, comprising not less than fifteen Carnegie units* in acceptable subjects, including prescribed work as follows:

English	3 units
Algebra	1 unit
Plane Geometry	1 unit
Latin, Greek, French, German or other foreign language (Both units in the same language)	2 units
History	1 unit
Electives	7 units

Total.....15 units

Deficiencies in any of the above described high school work may be made up by extra college work in the same subjects.

COLLEGIATE REQUIREMENTS

Two years' work in a recognized college or university, comprising not less than sixty semester hours, including prescribed subjects, as follows:

*A unit in a subject is the credit value of work in that subject for four recitation periods per week for thirty-six weeks. Each recitation period must be at least forty minutes in length.

Chemistry (See Note A).....	12	semester hours†
Physics (See Note B).....	8	" "
English (See Note D).....	6	" "
Biology (See Note C).....	8	" "
Electives (See Notes E and F).....	26	" "
Total.....	60	" "

NOTE A. CHEMISTRY.—Of the twelve hours at least eight semester hours must be in general inorganic chemistry, and at least four semester hours must be laboratory work. The remainder must include organic chemistry.

NOTE B. PHYSICS.—At least two of these eight semester hours must consist of laboratory work. It is recommended that this course be preceded by a term in trigonometry.

NOTE C. BIOLOGY.—At least four of the eight semester hours must be laboratory work. This requirement may be satisfied by eight semester hours in either general biology or zoology, or by courses of four semester hours each in zoology and botany; but not by work in botany alone.

NOTE D. ENGLISH.—The usual introductory college course of six semester hours in English composition and literature or its equivalent is required.

NOTE E. FRENCH, SPANISH, ITALIAN OR GERMAN.—French and German bear the closest relations to modern medical literature. Students are therefore urged to secure a reading knowledge of one of these.

NOTE F. ELECTIVES.—As desirable electives, the following subjects are suggested: Additional English; chemistry; zoology; psychology; an additional modern language; economics; college algebra, and trigonometry; sociology; history; political science; logic; Latin; Greek; drawing.

CONDITIONS NOT PERMITTED

No substitutes are allowed for the above prescribed subjects.

No entrance conditions are permitted.

Candidates for admission who have completed the above requirements, with the exception of a few hours of college subjects, should plan to make up their deficiency by attendance at a summer session.

COURSE OF STUDY

The School of Medicine offers a four-year course leading to the degree of *Doctor of Medicine* (M. D.).

The candidate must meet the entrance, residence, and registration requirements; must be twenty-one years of age; and must present satisfactory evidence of good moral character. The candidate must have attended and satisfactorily completed

†A semester hour is the work represented by one class period per week for half of the college year (at least thirty-two weeks). Each laboratory period to be so evaluated must extend over at least two hours.

four courses of lectures, no two of which shall have been attended in the same calendar year. Three years of the required work may have been done in some other medical college of recognized standing whose requirements are equivalent to those of this college. The senior year must be done in residence at this college.

The School of Medicine will grant the degree of *Bachelor of Science in Medicine* (B. S.) to students who have complied with the following requirements:

1. The student must have completed two full years of work leading to the bachelor's degree in the University of Arkansas or some other standard college or university, maintaining an entrance requirement of not less than fourteen standard high school units and requiring not less than sixteen hours of recitations and lectures per week in the college course.

2. The student must have included in his two years of preliminary college work all subjects required for entrance to the first year of the School of Medicine of the University of Arkansas.

3. The student must have completed all of the work in the first two years of the medical course in the School of Medicine of the University of Arkansas.

4. This degree shall not be conferred upon any except persons who are at the present time students in the School of Medicine of the University of Arkansas or upon those who shall enter that college hereafter.

FEES AND EXPENSES

Matriculation and registration for students of the state, each year, \$10.00. Tuition for residents of the state, each semester, \$20.00. Matriculation and registration for non-residents, each year, \$25.00. Tuition for non-residents, per semester, \$37.50. War Veterans: Bona fide residents of the state who are honorably discharged veterans of the world war, and who were citizens of Arkansas at the outbreak of the world war, and who otherwise are qualified, are exempted from payment of matriculation and tuition fees, provided that this shall not apply to veterans trained under contract with the United States Government. In addition to the above tuition and matriculation fees, deposits are required at the beginning of each session to cover breakage and supplies. There is also a deposit for students' activities.

BUILDINGS AND EQUIPMENT

The main building, erected in 1890, is a three-story brick structure containing a lecture hall, amphitheatre, museum, dissecting room, and laboratories. A second building, occupied chiefly by laboratories, has been outgrown, and the old state capitol is used for laboratories of chemistry, embryology, histology, physiology, pathology, bacteriology, clinical microscopy, surgical pathology, and pharmacology. These laboratories are well equipped with

new apparatus and supplies. The space is ample and the rooms are well lighted.

HOSPITAL AND CLINICAL FACILITIES

Coincident with the restoration of the course in clinical instruction, the Trustees perfected a close affiliation between the School of Medicine and the four leading general hospitals of the city, in each of which clinical teaching is done by members of the faculty. By this arrangement more than five hundred beds will become available for clinical teaching.

The *Little Rock General Hospital* has been completed at a cost of \$400,000. Its staff is provided by the Medical School and its one hundred and fifty beds are available to the Medical School for teaching purposes.

The *Baptist General Hospital* is rapidly nearing completion and its staff will be composed largely of members of the faculty.

St. Vincent's Infirmary, one of the oldest hospitals in the state, and the largest at present, is affiliated with the School and will continue to furnish material for clinical instruction. It has a bed capacity of two hundred and fifty.

St. Luke's Hospital, with a bed capacity of seventy-five is one of the affiliated hospitals and its entire staff is made up of members of the faculty of this School.

The above four hospitals have a representative on the administrative board of the School, through which the School and the hospitals are kept in harmonious correlation.

Isaac Folsom Clinic. This clinic was named in honor of the late Dr. Isaac Folsom, in consideration of his gift of an endowment of \$20,000. This clinic is under the direct and exclusive control of the faculty, and all its material is available for teaching purposes.

State Institutions. All the eleemosynary institutions of the state are situated in Little Rock. These include the School for the Blind, the School for Deaf Mutes, the State hospital for Nervous Diseases, the Penitentiary, the Reform School, County and City Hospitals, all of which contribute to the available clinical material.

HOSPITAL APPOINTMENTS

The following hospital appointments are made annually: Logan H. Roots Memorial Hospital, two resident physicians; University Hospital, two resident physicians; Pulaski County Hospital, four internes; State Hospital for Nervous Diseases, ten internes; St. Vincent's Infirmary, one resident physician and four internes. Appointments are made by competitive examinations open to graduates of the School of Medicine.

ANNOUNCEMENT

The next session will open September 17, 1924, and end June 4, 1925.

For further information in regard to the School of Medicine,

address the Dean of the School of Medicine, University of Arkansas, Little Rock, Arkansas.

AGRICULTURAL, MECHANICAL AND NORMAL SCHOOL

HISTORY

The Agricultural, Mechanical, and Normal School is situated at Pine Bluff, Arkansas. It was established pursuant to an Act of the General Assembly of Arkansas, April 27, 1873, and has been in operation since 1875.

Its purpose is to provide industrial education and to train teachers for efficient service in the colored public schools of the state.

BUILDINGS AND EQUIPMENT

The school property consists of twenty acres of land in the western suburbs of Pine Bluff.

The buildings include a two-story school building, containing an assembly hall; well equipped mechanical shops; a dormitory for women; a dormitory for men; a primary training school; and a girls' two-story home economics building.

ADMISSION

Candidates for admission must be at least fifteen years of age, and must pass a satisfactory examination in arithmetic, English grammar, geography, and United States History, such as is covered in the seventh grade. Those coming from other schools must furnish evidence of satisfactory deportment and class standing.

COURSES OF STUDY

Preparatory Department. In the preparatory department the foundation academic subjects are studied. The work corresponds to that of the eighth grade in the public schools.

Normal Department. The purpose of the normal department is to prepare students for teaching. Admission is based upon the completion of the preparatory course. Students who pass the prescribed course of study satisfactorily will be awarded a teacher's certificate.

Industrial Department. Beginning with the second year in the preparatory department, all students are required to pursue certain industrial courses. The industrial work extends through four years and the completion of the work is attested by a certificate of efficiency.

Young men do shop work in mechanic arts, carpentry, and

cabinet making, and have the opportunity to become skilled auto mechanics, blacksmiths, machinists, engineers, or firemen.

Young women are taught plain sewing, cutting and fitting, art needlework, cooking, and millinery.

Agricultural Department. In this department two courses of study are offered, one designed especially for students who are preparing to teach in the public schools, and a second course, for those who wish to specialize in agriculture. The latter course includes work in agronomy, farm economics, and kindred subjects.

FEES AND EXPENSES

Matriculation Fee (paid annually by all students).....	\$10.00
Dormitory Fee (including board, fuel, and light, paid by all women students at the beginning of each month)...	12.00
Student Activity Fee (paid by all students at the begin- ning of the year).....	3.00

ANNOUNCEMENT

For further information in regard to the Agricultural, Mechanical, and Normal School, address the Superintendent, Agricultural, Mechanical, and Normal School, Pine Bluff, Arkansas.

UNIVERSITY OF ARKANSAS

DEGREES, DIPLOMAS AND CERTIFICATES

1923

DEGREES

MASTER OF ARTS

James Fernando Ellis

Thelma Pickens

MASTER OF SCIENCE

Clara Baskin Bocquin

William Darrel Shinn

CIVIL ENGINEER

Jerry Will Higgs

BACHELOR OF ARTS

William L. Amis
Bunn McFaddin Bell
Margaret Lucile Bland
Florence Clyde Chandler
Blanche Cherry
Inez Couch
Ernest D. Crossno
Martha Bell Ellis
Bonnie Lee Farrior
Helen Futrall
Mildred Gillespie
Leo Jefferson Hardin
Lyman Theodore Husky
Vestal Glayds Johns
Frances Elizabeth Jordan
Dorothy Dee Knerr
Clara Mae Kuhnert

Claire Lewis
William A. Lyon
Mary Cecilia Mulrenin
R. Edwin O'Kelley
Lyndon Elizabeth Park
Edwin Doyle Parrish
Adeline Pate
McDonald Poe
Julian Buril Priddy
James Leland Robertson
Carl A. Rosenbaum
Grace Lenore Samuelson
Madge Spratt
Beloit Taylor
Billie Bob Thrasher
Mildred Elizabeth Toaz
Ray Edwin Williams

Stanley H. Wood

BACHELOR OF SCIENCE

Bert Hartzel Lincoln

BACHELOR OF SCIENCE IN AGRICULTURE

James Lee Bossemeyer
Robert Paul Cummings
Earl Young Fitch
Arthur Roe Garlington
William McKinley Lefors

Hugh Price Moffitt
William Lea Powell
John Henry Rodgers
Milton Burke Slade
Clarence Turner Smith

DeWitt McKinley Smith

BACHELOR OF SCIENCE IN HOME ECONOMICS

Alma Alexander
Grace Edith Hodges
Odessa Pearce

Vera Slaughter
Clara Spencer
Elizabeth Florence Thompson
Nell Zachry

BACHELOR OF SCIENCE IN EDUCATION

Lucy Theresa Bassett
 Cornelia Newell Crozier
 Rachel Flagg Crozier
 Florence A. Harrington
 Robert Bracy Haynie
 Odus G. Holmes
 Vogel Joseph Jeffery
 John Eber Manning
 Mary Grace Paddock
 Lucy Ervin Pettigrew

Irene Lucille Richardson
 Garland Stanley Rushing
 Dilla B. Russell
 William Jacob Schoonover
 Douglas Omar Smith
 John Ira Smith
 Jessie Stewart
 Mary Bob Sullivant
 Frances Thrasher
 Ruth Wolf

BACHELOR OF CHEMICAL ENGINEERING

Harry Logan McMullin

BACHELOR OF ELECTRICAL ENGINEERING

Benjamin Reynolds Askew
 Jack Watson Booker
 Harry Burns Curtis
 William Mace Harrison

L. Gale Huggins
 Garland Rex Kilbourne
 Samuel Miles Sharpe
 Clyde U. Thomas
 Maximilian X. Ware

BACHELOR OF MECHANICAL ENGINEERING

George Marion Basore

Howard Rupert Clark
 Henry Herman McKinnies

BACHELOR OF CIVIL ENGINEERING

William L. Baugh
 Leroy John Harrington

Brice R. Smith
 Philip Otto Teter

CERTIFICATES

TWO-YEAR TEACHER'S COURSE

Minnie Clare Atkinson
 Helen Frances Barnett
 Virginia Lee Benton
 Hazel Bird
 Sam Houston Branch
 Beryl Hey Brasher
 Marguerite Brewster
 Carrie May Burks
 Florence Clyde Chandler
 Inez Couch
 Agnes Compton
 Lydia Beatrice Cox
 Anna Belle Davis
 Jessie Mae Davis
 Anna Louise Dowell
 Frances Sue Edwards
 Martha Bell Ellis
 Helen Futrall
 Evelyn Bird Hawkins
 Lillian Irene Hester
 Mary Angeline Irvin
 Vestal Gladys Johns
 Allean Ament Johnson
 Edna G. Jordan
 Frances Elizabeth Jordan

Helen Jordan
 Frieda Grace Judy
 Pansy B. Kelley
 Mary Lynn Killian
 Clara Mae Kuhnert
 Guy Norton Magness
 Mary Cecilia Mulrenin
 Francile B. Oakley
 Lyndon Elizabeth Park
 Edwin Doyle Parrish
 Earle Irene Pinkerton
 Gladys Ellen Reeser
 Christine Richardson
 Marjorie Jo Rood
 Elsie Inez Rouw
 Margaret Louise Ruppel
 Georgia Schweer
 Erma Simmons
 Bonn Viola Smith
 Mary Bess Smith
 Ruth Swink
 Helen Elizabeth Taggart
 Helen Alverta Wallace
 Lois White
 Taylor Thomas Williams

*TEACHER'S COURSE IN HOME ECONOMICS*Grace Edith Hodges
Odessa PearceVera Bevers Slaughter
Clara D. Spencer
Nell Zachry*DIPLOMA IN PIANOFORTE*

Florence Clyde Chandler

Helen Catherine Lewis

DIPLOMA IN PIANOFORTE AND VOICE

Jessie Stewart

*TWO-YEAR SHORT COURSE IN POWER PLANT
ENGINEERING*

Jesse E. Brown

Roy E. Lowe

*TWO-YEAR SHORT COURSE IN ELECTRICAL
ENGINEERING*E. G. Allred
R. W. Carr
Claude L. Chambers
Leonard S. Creasy
Clarence E. Doren
Charles E. Edler
E. J. Faubus
C. J. Hanson
A. L. Kehoe
A. J. KorenkeJ. W. Lynn
Claude McAdams
C. E. Mitchamore
Simon J. Raidt
Francis A. Render
N. B. Roe
Cecil Elbert Rowe
Luther L. Shirmer
C. W. Shrader
James Oval Walker

Leighton B. Whiteside

*HONORS**GRADUATION HONORS*Vestal Gladys Johns
McDonald PoeMary Bob Sullivan
Ray Edwin Williams*CLASS HONORS*Julian Burrill Priddy
Ernest D. Crossno
Florence Clyde Chandler
Ray Edwin Williams
McDonald Poe
Mary Bob SullivanJohn Henry Rodgers
R. Edwin O'Kelley
Howard Rupert Clark
Vestal Gladys Johns
Henry Herman McKinnies
Bun McFaddin Bell
Brice R. Smith*DEPARTMENTAL HONORS**English*Lyndon Elizabeth Park (First)
Vestal Gladys Johns (Second)*Chemistry*

Harry Logan McMullin (First)

*Economics*McDonald Poe (First)
Bunn McFaddin Bell (Second)*Civil Engineering*

Brice R. Smith (First)

*SCHOLARSHIPS**DEPARTMENTAL SCHOLARS (Graduate)*

1923-1924

Agricultural Education.....Keith Holloway

Botany.....	Arthur D. Oxley
Chemistry.....	Horace Jones
Mathematics.....	Samuel Bird
English.....	Mrs. A. M. Lavendusky
Education.....	Edwin O'Kelley

UNIVERSITY SCHOLARS

1923-1924

Ruth Boggs.....	Fayetteville
Cecil Roy Culver.....	Mammoth Spring
Clyve Collier.....	Gillett
Albert Dillard.....	Amity
Charles Dunn, Jr.....	Eureka Springs
Bonnie Gene Hunsucker.....	Lockesburg
Colquette Earl Hays.....	Atkins
Fletcher Isbell.....	DeQueen
Otis M. Jernigan.....	McCrory
John J. Johnson.....	Foreman
Hiolland King.....	Siloam Springs
LeRoy Little.....	Cabot
Arl Moore.....	Greenwood
Callie McElroy.....	Wynne
Chandos Parker.....	Ratcliff
Lillian Patterson.....	Osceola
Carrol Walsh.....	Crossett
William Woolsey.....	Ozark

LIST OF STUDENTS

GRADUATE STUDENTS

Name and Degree	Home Address
Armstrong, A. B., B. A., University of Arkansas.....	Wynne
Barton, Loy E., M. E., University of Arkansas.....	Fayetteville
Brandstetter, Wm. George, B. S., Highland Park College.....	Springdale
Buchholz, Olive P., B. A., Wellesley College, M. S., University of Chicago.....	Fayetteville
Byrd, Sam, B. S. E., University of Arkansas.....	Ozark
Crossno, Ernest D., B. A., University of Arkansas.....	Ozark
Davidson, Emmett, B. A., College of Emporia.....	Fayetteville
Grove, Ivan H., B. A., University of Tulsa.....	Fayetteville
Holloway, Keith L., B. S. A., University of Arkansas.....	Fayetteville
Johnson, Madge, B. S. H. E., University of Arkansas.....	Highfill
Jones, Mrs. V. L., B. A., Trinity College, N. C., M. A., Columbia University.....	Fayetteville
Lavendusky, Mrs. A. M., B. A., Galloway College.....	Fayetteville
Mulrenin, Mary Cecilia, B. A., University of Arkansas.....	Fayetteville
O'Kelley, R. Edwin, B. A., University of Arkansas.....	Little Rock
Owen, Thomas C., B. A., Hendrix College.....	Mena
Oxley, Arthur Daniel, B. S. Iowa Wesleyan College.....	West Liberty, Iowa
Thompson, Elizabeth, B. S. H. E., University of Arkansas.....	Fayetteville

UNDERGRADUATE STUDENTS

EXPLANATION OF ABBREVIATIONS

A.....	College of Arts and Sciences
Ag.....	College of Agriculture
ATC.....	Agri. Trade Course
Ed.....	College of Education
E.....	College of Engineering

F.....	Freshman
HE.....	Home Economics
J.....	Junior
So.....	Sophomore
Sr.....	Senior
Sp.....	Special
T.....	Trade Course

Name	Course	Home Address
Acker, Joe Henry	E-F	Hot Springs
Adams, Mettie	Ed-F	Fayetteville
Adams, Robert Harvel	Ed-F	Newark
Adams, Rolla Perry	Ed-So	Selma, La.
Adams, Roy Hamilton	F-T	Muskogee, Okla.
Adams, Ward Hogan	A-J	Springdale
Agee, Harry Lee	A-J	Paragould
Ainsworth, E. Merrill	A-F	Wesson
Akin, Bess	A-So	Fouke
Alcorn, Robert Elmore	Ag-So	Pine Bluff
Alder, Louis B.	Ed-Sr	Fayetteville
Alexander, Erskin, H.	A-F	Okmulgee, Okla.
Alexander, Fannie Elizabeth	Ed-F	Fayetteville
Alexander, Frances Gertrude	Ed-F	Fayetteville
Allen, Arthur	ATC	Bigelow
Allen, Dimple	Ed-F	Little Rock
Allen, Esther Elizabeth	A-J	Van Buren
Allen, Gerald Meredith	E-T	Fayetteville
Allen, Lorraine	A-So	Little Rock
Allen, William E.	ATC	Mansfield
Alley, Granville Mason	A-So	El Dorado
Alley, Pauline Sara	A-So	El Dorado
Alston, Irl	F-T	Checotah, Okla.
Alvarez, John Arthur	A-F	Fort Smith
Andersen, Geneva Rose	HE-So	Fayetteville
Anderson, James Hayden	E-So	Fort Smith
Anderson, Homer Lee	A-So	Louann
Anderson, Wade Brashears	A-F	Huntsville
Andrews, Emily Katherine	A-Sp	Fort Smith
Andrews, John Whit	A-F	Fort Smith
Andrews, Mary Olive	HE-So	Cotton Plant
Anderson, Elmer J.	E-T	Louann
Angus, Robert Morton	ATC	Fayetteville
Appleby, John Tate	A-F	Fayetteville
Argo, Hayden C.	A-F	Cotton Plant
Armstrong, Minnie Ruth	A-So	Fort Smith
Askew, Bettie Bernard	A-F	Fayetteville
Askew, Margaret Ellen	Ed-Sr	Fayetteville
Atkins, Edwin Carl	Ag-Sr	Chidester
Atkins, Raima	A-F	Van Buren
Atkinson, John Allen	Ed-F	Berryville
Atkinson, Mary Alzira	HE-Sr	Berryville
Atway, Walter Talbert	Ed-F	Swifton
Ault, Charley	A-F	Hot Springs
Ault, Dean Douglass	E-Sr	Donaldson
Austin, Helen Myra	HE-F	Fayetteville
Austin, Raymond Albert	E-So	Gravette
Avery, Arthur Benjamin	E-So	Lake Village
Baber, Aubrey VanCleve	E-Sr	Siloam Springs
Baber, Leelah Gretchen	A-So	Siloam Springs
Baber, Lytle Clermont	Ag-J	Franklin
Baber, Quin Morton	Ag-Sr	Myron
Bacus, Rachel Elizabeth	A-F	Carlisle
Bagby, Herman Carlton	Ed-F	Pine Bluff
Bagby, John	Ag-F	Lake Village
Baggett, John Bennett	A-F	Prairie Grove
Baggett, Marie	Ed-So	Prairie Grove

Name	Course	Home Address
Bagwell, Thomas T.	E-T	Kemfis, Okla.
Bain, Melvin H.	E-T	Staton, Texas
Baker, Jewell Beden.	E-F	Hope
Baker, Samuel Ray.	E-F	Paragould
Baldwin, Harry.	ATC	Little Rock
Banks, Conley A.	Ed-F	Gravette
Banks, Jeff.	A-F	Johnson
Barber, Oliver A.	ATC	Little Rock
Bare, Noel Milton.	E-F	Eureka Springs
Barham, William Calvin.	Ed-So	Prescott
Barnett, Elizabeth M.	Ed-J	Pangburn
Barnett, Helen Frances.	A-J	Fayetteville
Barnett, Louis Raymond.	A-F	Cotton Plant
Barrett, Edward Rush.	A-So	Black Oak
Barrett, Myrtle Cornelia.	A-F	Eureka Springs
Barion, Mattie L.	Ed-Sr	Fayetteville
Barton, Earl Houston.	F-F	Fayetteville
Barton, J. Clib.	A-So	Fort Smith
Bass, Fern Eunice.	Ed-F	Picher, Okla.
Bates, Frances Clementine.	HE-So	Fayetteville
Bates, Lucile Dyer.	HE-So	Fayetteville
Batjer, Margaret Quay.	HE-Sr	Fayetteville
Batson, Creed Brooksheer.	Ed-F	Fort Smith
Baxter, Margaret Josephine.	Ed-F	Texarkana
Beardsley, Harry Frank.	A-F	Fayetteville
Beasley, Edward Leonard.	E-F	Hot Springs
Beasley, James Samuel.	A-F	Texarkana
Beasley, Jeanette Elizabeth.	HE-F	Cabot
Beasley, Roy Basil.	Ed-So	El Dorado
Beatie, David Manton.	A-F	Paris
Beachamp, Charles Henry.	Ed-F	Fayetteville
Beck, Robert Roy.	E-T	Monte Ne
Becker, Hazel Frances.	A-F	Fayetteville
Bedford, Sam Lynn.	A-So	Paris
Bell, Louis Dee.	A-F	Texarkana
Bell, Robert Lee.	E-F	Batesville
Beloate, William Edmund, Jr.	A-F	Walnut Ridge
Benbrook, Orien Thurl.	A-So	Rogers
Bennett, Bruce Winfred.	E-F	Siloam Springs
Bennett, Cletos Otho.	E-J	Fayetteville
Berry, Homer Lester.	Ed-Sr	Carlisle
Berry, Irma Lee.	A-So	Fayetteville
Berry, Lois Katherine.	HE-Sr	Fayetteville
Berry, Nellie Mae.	HE-F	Carlisle
Berry, Nieta Frances.	Ed-F	Westville, Okla.
Bess, John William.	ATC	Jasper, Ala.
Bethel, Virgil.	Ed-F	Bates
Beuchman, George S.	A-So	Brinkley
Bevill, Leslie Foster.	E-So	Kensett
Biggers, Harry Elwood.	Ed-F	Tuckerman
Bigger, Turner.	A-F	Pocahontas
Binns, James Oscar.	E-T	Kellyville
Bird, Irene.	A-F	Waldron
Birdsong, Bessie Okla.	HE-F	Carlisle
Bishop, Everett Cornelius.	A-F	Ashdown
Black, Lena.	HE-F	Bentonville
Black, Marian Elizabeth.	A-F	Fort Smith
Black, Paul Lawrence.	A-F	Piggott
Blackard, William Homer.	A-F	Muldrow, Okla.
Blackburn, Clifford S.	Ed-I	Danville
Blackburn, Mildred.	Ed-So	Prairie Grove
Blackburn, Oather Scott.	A-So	Clarksville
Blackburn, Ruth Catherine.	A-J	Clarksville
Blackmun, Lynn Allen.	F-I	Fayetteville
Blackshare, Lois Erlene.	Ed-So	Piggott

Name	Course	Home Address
Blair, William Adams	E-So.	Enterprise, Okla.
Blake, Joel Welborn	E-Sr.	Wagoner, Okla.
Blanshard, Mary Virginia	HE-Sr.	Fayetteville
Blood, Ruben Sylvius	E-F.	Fayetteville
Bocquin, Mary Emma	HE-J.	Fort Smith
Bogart, Clarence Nail	A-F.	Forrest City
Bogart, Julia	A-So.	Fayetteville
Boggs, Hugh McAndrew	A-So.	Fayetteville
Boggs, Ruth	A-F.	Fayetteville
Bohart, James McGill	A-F.	Fayetteville
Bolling, Joe Craig	A-Sp.	Little Rock
Bollinger, Audrey	Ed-F.	Fort Smith
Bond, Minta Lee	A-So.	Fayetteville
Boozman, Herman	Ed-F.	Fort Smith
Bossemeier, Frances Marian	A-F.	Fayetteville
Bottorff, Melvin	A-F.	Little Rock
Bowman, Claude E.	E-Sr.	Newport
Bowman, Eugene C.	E-F.	Newport
Bowman, George Frederick	Ag-So.	Rogers
Bowman, Ruth Elmore	HE-F.	Newport
Box, Nina Merrill	HE-So.	Neosho
Boyce, Helen	Ed-F.	Texarkana
Boyd, Berniece Isabel	Ed-J.	Fayetteville
Boyd, Macie	Ed-Sr.	Fayetteville
Boyd, Mary Turley	HE-So.	Fayetteville
Bradley, Beulah Isabel	Ed-So.	Little Rock
Brady, Elmer Harrold	A-F.	Hot Springs
Brandenburg, Charles Jones	A-F.	Newport
Branscum, John Oscar	A-So.	Berryville
Bransford, Joseph Rorie	E-F.	Lonoke
Branson, Earl	A-F.	Fort Smith
Brasher, Beryl Hey	A-J.	Houston, Texas
Braswell, Elton	A-F.	Wharton, Texas
Brazzel, Carrie Marion	Ed-So.	Warren
Bredberg, Louis Elliot	A-Sp.	Fayetteville
Brewer, John Frazer	A-F.	Kerr
Bridgforth, David Thomas	A-F.	Forrest City
Bridgforth, Otto Rollwage	A-F.	Forrest City
Brierton, Bennie Emanuel	E-J.	Stuttgart
Brooks, Charles S.	E-T.	Bedias, Texas
Brown, Charles Albert Jr.	A-F.	Fayetteville
Brown, Dorothy Stalcup	HE-F.	Lincoln
Brown, Gordon Russell	Ag-F.	Scott
Brown, Hurley Wilbert	Ed-F.	Fayetteville
Brown, John Grover	E-So.	Rogers
Brown, Verna Jene	A-F.	Fayetteville
Brown, William Hazel	E-F.	Abbott
Broyles, Henry Engels	Ag-F.	Farmington
Brundidge, Edward Lightle	A-F.	Searcy
Brunk, Lucile	Ed-F.	Prairie Grove
Bryan, Floyd Thomas	A-J.	Charleston
Bryan, Lyle L.	Ed-Sp.	Fayetteville
Bryant, Mary Lou	HE-F.	Fort Smith
Buchanan, Katy Sue	A-So.	Cane Hill
Buchanan, Raymond Moore	E-So.	Cane Hill
Buck, Lloyd Guy	A-So.	Magnolia
Buckner, Tom R.	E-T.	Rochester, Texas
Bueckley, Mary Lydia	HE-J.	Carlisle
Buerkle, Emma Martha	A-Sr.	Stuttgart
Bullock, Nolen David	Ed-F.	Bentonville
Bunch, Charles Samstag	Ag-I.	Weldstein
Bunch, Joel Ernest	Ag-F.	Kingston
Bunch, William Burr	Ag-F.	Kingston
Bunker, Nelson French	Ag-F.	Lake Village
Burden, William	A-F.	Sarcoixie, Mo.

Name	Course	Home Address
Burk, James Houston	A-F	Jonesboro
Burke, Ollie David	Ag-So	Fayetteville
Burlingame, Joseph T. Jr.	E-So	Ashdown
Burham, Edythe Belle	Ed-F	Glenwood
Burns, Coleman Dean	Ag-J	New York, N. Y.
Burns, Jeanne Adelia	A-So	Jonesboro
Burnside, Frank Hunt	E-So	El Dorado
Burson, Guy Spurgeon	A-F	Van Buren
Bushey, George Gordon	E-So	McGehee
Buttry, Charlotte Montez	E-F	Rogers
Byers, Uriel E.	E-T	Bridgeport, Texas
Byrd, Claude J.	Ag-J	Augusta
Byrne, Mildred Louise	A-F	Batesville
Cabe, Charles Lewis	A-So	Stamps
Cain, Celeste Jean	A-F	Cotton Plant
Caldwell, Guy Stanley	A-F	Paris, Texas
Campbell, Blanche Maude	A-F	Fayetteville
Campbell, Marceline	A-Sr	Fayetteville
Campbell, Marion Elizabeth	A-So	Chicago, Ill.
Campbell, Roberta	A-So	Little Rock
Canada, O'ho Thomas	A-F	Little Rock
Cannon, Oscar Erwin	A-So	Hot Springs
Cansler, Thomas C.	E-T	Wewoka, Okla.
Cantrell, Seldon J.	E-T	Blue Ridge, Texas
Cargile, William Thomas	E-F	Junction City
Carlin, Carl Rawson	A-F	Holdenville, Okla.
Carman, Mary Elizabeth	Ed-F	North Little Rock
Carnahan, Hazel Maurine	A-F	Smackover
Carroll, James Hardy	A-F	El Dorado
Carruth, Margaret Elizabeth	A-So	Little Rock
Carruth, Paul Fealy	Ag-So	Ursula
Cecil, James Gilbert	E-So	Valliant, Okla.
Champion, Mary Amelia	Ag-So	Gillett
Chaney, Chloe	Ed-F	Osage
Chappelle, William Roff	A-F	Mt. Pleasant
Cherry, Marie	A-So	Paris
Chitwood, Hoyt M.	ATC	Magazine
Chrastek, Cyrill	ATC	Oklahoma City, Okla.
Chrisler, Verna	Ed-F	Harrison
Christian, Carroll Dodson	Ag-Sr	Springdale
Christian, Harry Percy	A-So	Hot Springs
Clark, Alfred L.	E-F	Calico Rock
Clark, Frances Grace	HE-F	Fayetteville
Clark, Hugh Thomas	A-So	Little Rock
Clark, Ruth Margaret	A-F	Jenny Lind
Claypool, Eutha Mildred	HE-F	Springdale
Clement, George Muller	A-F	DeQueen
Clemmer, James Franklin	A-F	Gentry
Cleveland, William Porter	E-J	Pine Bluff
Cobb, Jessie Ray	A-Sr	Fayetteville
Cobb, Robert Lucas	A-F	Helena
Cobb, Tom	Ag-F	Bentonville
Cochran, Henry	Ag-So	Russellville
Cochran, Mert Collier	A-F	Rector
Coe, Helen Estella	HE-So	Fayetteville
Coffey, Moina Lucile	A-F	Foreman
Coker, Fred Elbert	E-Sr	Monticello
Colbert, Katherine Chinn	A-So	Minden
Coleman, Henry Adrian	A-So	Paragould
Coleman, Samuel Wallace	Ed-J	Fayetteville
Collamore, Loftus J.	E-Sr	Little Rock
Collie, Daniel Luther	E-T	Jacksonville, Texas
Collier, Clyde W.	E-F	Gillett
Collier, Thomas Wilson	A-F	Charleston
Collins, Benjamin T.	A-F	Dumas

Name	Course	Home Address
Combs, Otto C.	A-Sr.	Fayetteville
Compton, Ernest Selden	A-F	Little Rock
Conley, Kate Elizabeth	Ed-So.	Paris
Conner, Mary Margaret	Ed-So.	Fayetteville
Conner, Mildred Louise	Ed-So.	Fayetteville
Connors, Dorothy Maxwell	Ed-F	Little Rock
Cook, Alice Virginia	HE-Sr.	Fayetteville
Cook, Miles Stanley	A-F	Pine Bluff
Cook, Pauline	Ed-F	Texarkana
Cook, Thomas Jefferson	E-T	McCrory
Coonfield, Ben Randolph	A-So.	Lowell
Cordry, Asbury L.	Ag-Sp.	Clifty
Corgan, Charles Howard	Ed-F	Wagoner, Okla.
Corley, Powell Reuben	ATC	Fort Smith
Cotham, Edward Ralph	A-So.	Monticello
Cotton, Ellen Grace	A-Sr.	Fayetteville
Cotton, John Leonard	A-Sr.	Fayetteville
Cotton, Nell E.	Ed-So.	Houston, Mo.
Covey, Robert Edgar, Jr.	A-So.	Van Buren
Cowling, Frances Warren	Ed-F	Texarkana
Cox, Hollace Lawton	E-Sr.	Vale
Cox, Joe	ATC	Afton
Cox, Russell Eugene	A-F	Mena
Coxsey, William Lyle	A-F	Green Forest
Crabough, Alfred Jackson	A-Sr.	Bentonville
Crabtree, Pauline H.	Ed-So.	Fort Smith
Craig, Charles B.	Ed-F	Fayetteville
Craig, Lillian Ruth	HE-F	Fayetteville
Craig, William Thomas	A-So.	Eudora
Cravens, Wyatt Lamar	A-J	Paris
Crawford, Albert Buell	A-F	Green Forest
Crenshaw, Alice	HE-J	Fayetteville
Crenshaw, David Brown	Ag-F	Elaine
Crews, Grace Lucile	Ed-Sp.	Little Rock
Crockett, Charles Hayes	ATC	Fayetteville
Croneis, Grayce Williams	Ed-Sr.	Fayetteville
Cross, Robert Cecil	E-Sr.	Waldron
Crum, Neva	Ed-F	Helena
Crum, Thomas J.	E-F	Helena
Culp, Everett A.	ATC	Littlefield
Culver, Cecil Roy	A-F	Mammoth Spring
Cunningham, Joe Andrew	E-Sr.	Clarksville
Cunningham, Marcus Earl	A-So.	Fayetteville
Curry, Corlis Colby	A-So.	Monticello
Dale, Ethel	A-J	Fort Smith
Dalton, Marvin Lewis	Ed-F	Pocahontas
Daniel, Charles William	Ed-F	Monticello
Daniel, George Edwin	A-F	Arkadelphia
Daniel, Mary Ida	A-J	Fayetteville
Daniel, Nellie May	A-J	Fayetteville
Daniels, Robert Jesse	ATC	Sweetwater, Texas
Daniels, Walter Elmer	A-Sr.	Little Rock
Darr, Mary Alice	Ed-So.	Little Rock
Davidson, Ruby Irene	A-F	Fayetteville
Davidson, Samuel L.	E-So.	Conway
Davis, Beulah Mae	A-F	Murfreesboro
Davis, Charley Davenport	E-F	Hartford
Davis, Halsell S.	A-Sr.	Anna, Texas
Davis, Ira Winfield	A-F	Okmulgee, Okla.
Davis, Marjorie Allyn	Ed-F	Fort Smith
Davis, Mozelle	HE-So.	Fayetteville
Davis, Ray Ewell	A-F	Melbourne
Davis, Winnie Bob	Ed-F	Wynne
Day, Loren Ottie	Ed-F	Datto
Deal, Philip L.	A-J	Lonoke

Name	Course	Home Address
Dean, Gwendolyn.....	A-J.....	Marvell
Dearing, Fay Kathleen.....	A-Sr.....	Prairie Grove
Demarke, Joseph Jr.....	E-So.....	Arkansas City
Demarke, Lawrence Edward.....	A-F.....	Arkansas City
Denson, Henry Ois.....	E-T.....	Kirkland, Texas
Denson, Raymond L.....	Ed-So.....	Kirkland, Texas
Dehton, Fred A.....	A-F.....	Hamburg
Derry, Louis Lee.....	Ed-So.....	Paragould
DeShong, Louis Carter.....	A-F.....	Fayetteville
Dever, Zetta Pearl.....	Ed-F.....	Fayetteville
DeWitt, Charles Burns.....	Ag-F.....	Gentry
Dibrell, James Pierce.....	A-F.....	Van Buren
Dicken, Bessie Maud.....	Ed-J.....	Monticello
Dickinson, George Wallace.....	A-F.....	Horatio
Dickson, Elbert.....	ATC.....	Longview, Texas
Dickson, Price Addison.....	Ag-Sr.....	Bentonville
Dill, Arthur.....	ATC.....	Red Oak, Okla.
Dillard, Albert Henderson.....	Ag-F.....	Amity
Dixon, Mary.....	Ed-J.....	Lincoln
Dobyns, Hercel Charles.....	A-F.....	Stigler, Okla.
Dodson, Aubrey Kenneth.....	E-F.....	Roland, Okla.
Dolton, Louisa.....	A-F.....	Springdale
Donaldson, Annie Louise.....	Ed-F.....	Rector
Donaldson, Joy Kenneth.....	A-J.....	Green Forest
Donley, Arthur Walker.....	E-T.....	Bradford
Dooley, Carlton W.....	A-So.....	Houston, Mo.
Dooley, Isabel Walker.....	A-J.....	Houston, Mo.
Doty, Fern Philander.....	A-F.....	Paola, Kansas
Douglass, Thomas Carter.....	A-F.....	Ozark
Dowd, Willie J.....	Ag-J.....	Prescott
Doyle, H. Clay.....	Ed-F.....	Walnut Ridge
Dozier, Charles Bingham.....	A-J.....	Moro
Dozier, Floyd Spivey.....	A-J.....	Moro
Drummond, Tom Melville.....	A-F.....	DeQueen
Duff, William Herman.....	A-F.....	Plummerville
Duffie, Marjorie Kathryn.....	Ed-So.....	New York, N. Y.
Duggans, Frances Katherine.....	HE-F.....	Fayetteville
Duke, Lucille Caswell.....	Ed-So.....	Waldron
Dunn, Charles Jr.....	E-F.....	Eureka Springs
Durn, Richard Bolling.....	A-F.....	Fayetteville
Dunras, Edmund.....	Ag-So.....	Fayetteville
Dupuy, Eva Arrington.....	A-J.....	Marianna
Dupuy, Wilma Imogene.....	A-So.....	Marianna
Dyer, Ruth.....	Ed-Sr.....	Fayetteville
Dyer, Walter Sherman.....	A-Sr.....	Fayetteville
Earl, Billie.....	Ed-So.....	Morrilton
Earle, Fontaine.....	E-F.....	Fayetteville
Earle, John Baylis.....	Ag-Sr.....	Fayetteville
Earle, Margaret.....	A-Sr.....	Fayetteville
Easley, Edgar Jesse.....	A-F.....	Little Rock
Eaton, Saba J.....	E-T.....	Brownwood, Texas
East, Jack.....	Ed-Sr.....	Texarkana
Edwards, Sarah Zaine.....	A-Sr.....	Fort Smith
Edwards, Ralph Benjamin.....	E-F.....	Heber Springs
Elliott, Lloyd C.....	Ag-F.....	Parks
Elliott, Marion B. H.....	HE-Sr.....	Johnson
Ellis, Charles Edmund.....	E-Sr.....	Rogers
Ellis, Lillian.....	Ed-So.....	Lonoke
Eubanks, James Earl.....	ATC.....	Garfield
Evans, James M.....	E-T.....	Osage, Okla.
Evans, Burdace.....	A-F.....	Neosho, Mo.
Evans, William Clarence.....	Ed-Sr.....	Atkins
Everett, Marian Louise.....	Ag-So.....	Gentry
Faisst, Bernard.....	A-Sp.....	Benton
Farmer, Archie Madison.....	E-T.....	Asher, Okla.

Name	Course	Home Address
Farmer, Myrtle.....	A-J	Newport
Farrior, Dorothy.....	Ed-F	Dardanelle
Fenton, Donald Ray.....	A-F	Ashdown
Ferguson, Dorcas Catherine.....	A-Sr	Russellville
Fewkes, Alma Lydia.....	A-J	El Dorado
Files, Richard Malcolm.....	E-So	Itasca, Texas
Finger, Hubert Philip.....	ATC	Fayetteville
Finklea, Asa Walter.....	E-F	Porum, Okla.
Finkbeiner, Mary Louise.....	HE-F	Benton
Fishback, William Meade, Jr.....	A-F	Fayetteville
Fisher, Alfred Ted.....	E-Sr	Rogers
Fitch, Irma.....	HE-J	Hindsville
Fitzpatrick, Feaster Fay.....	Ed-F	Mansfield
Fleak, Arthur Berl.....	Ed-So	Fayetteville
Fleak, Mabel Harris.....	HE-Sp	Fayetteville
Fleak, Roy Everett.....	E-J	Fayetteville
Fly, Lucia King.....	A-So	Little Rock
Foley, Annette N.....	A-F	Fayetteville
Foley, Ralph Timothy.....	Ed-F	Fayetteville
Fontaine, Ernest H. Jr.....	A-So	Clarksville
Fort, Forrest.....	A-So	Fort Smith
Ford, George Benjamin.....	Ag-F	Ozark
Ford, Ralph Miller.....	Ed-So	Newport
Ford, William M.....	E-F	El Dorado
Forgy, Percy O'Dell.....	A-J	Dierks
Forrest, James G.....	E-T	Richmond, Texas
Franklin, Herman F.....	E-T	Fort Worth, Texas
Frasier, Waldo.....	Ag-Sr	Ozark
Freeman, Russell Eugene.....	E-F	Brinkley
French, Mrs. Elizabeth.....	E-Sp	Fayetteville
Freyschlag, Helen.....	Ed-F	Fayetteville
Friend, Harold Lloyd.....	E-So	Fayetteville
Fulbright, James William.....	A-Sr	Fayetteville
Fulkerson, Stanley D.....	E-J	Prairie Grove
Fuller, Pauline Lillian.....	HE-F	Waldron
Fuller, Robert Pickens.....	A-So	Waldron
Fuller, Sybil Josephine.....	Ed-So	Waldron
Fuller, Ishmael W.....	ATC	Miami, Okla.
Futrell, Emily.....	A-J	Fayetteville
Futrell, Ernie.....	A-So	Paragould
Futrell, Junius Byron.....	A-So	Paragould
Gaddy, Joseph Carroll.....	Ag-J	Wilmar
Gage, Jack John.....	E-F	Fayetteville
Gage, James Thomas.....	E-F	Fayetteville
Galloway, John Stanley.....	E-T	Paducah, Texas
Cann, William Eulus.....	Ed-F	Abbott
Gardner, Tom S.....	E-T	Marietta, Okla.
Gardner, William W.....	E-J	Richmond
Garrett, Billy.....	Ag-F	Altzheimer
Garrison, Albert H.....	E-Sr	St. Joe
Garrison, Benjamin F.....	A-F	St. Joe
Garrison, Daniel G.....	A-Sr	St. Joe
Garrison, Glenn.....	A-So	DeQueen
Gaston, Walter J.....	E-T	Warren
Geary, Charles Watson.....	Ag-J	Henderson
Gentry, Cecil Calvin.....	Ed-F	Pine Bluff
George, Jack R.....	A-F	Ola
George, Percy.....	Ed-F	Danville
Gholson, Roy Lee.....	E-F	Fayetteville
Gibbs, Arthur Myers.....	A-F	Gulledge
Gibson, Gladys Evelyn.....	HE-So	Nashville
Gibson, Julius Cummings.....	A-Sr	Harris
Gibson, Newell Clarence.....	A-J	Eureka Springs
Gibson, Sidney Jobe.....	A-So	Fordyce
Gillespie, Mary L.....	HE-Sr	Fayetteville

Name	Course	Home Address
Gilliam, James E.	A-F	Spiro, Okla.
Gipson, Vesta Mayo	Ed-F	Des Arc
Gist, Thomas Hattel	Ag-F	Helena
Gladden, Doris Margaret	A-So	Bentonville
Glenn, Lloyd Earl	E-T	Indianoma, Okla.
Glockengieser, Lawrence E.	A-F	Corning
Godby, Milens Jethro	Ed-F	Atkins
Golden, Dorthy May	A-So	Marianna
Goldman, Charles T.	E-T	Evansville
Gollaher, Ruby Irene	HE-F	Fayetteville
Goodrich, James Morrison	Ed-F	Osceola
Goodwyn, Helen	Ed-F	Fayetteville
Gordon, Herbert Lewis	A-F	Antwerp, O.
Gore, Ulys Roy	Ag-So	Farmington
Gosnell, Leo	Ed-F	Springdale
Gosnell, Robert F.	E-F	Springdale
Gottfried, Emanuel D.	A-So	Brinkley
Grabiel, Richard	A-So	Fayetteville
Graham, Maude	Ed-F	Natural Dam
Graves, Homer Dodson	E-J	Springdale
Gray, Myrtle Lucile	HE-F	Fayetteville
Gray, William E. Jr.	A-F	Little Rock
Greathouse, Margaret	Ed-So	Fayetteville
Green, Robert Earl	A-F	Little Rock
Greene, Robert Alva	A-Sr	Pea Ridge
Greenhaw, Don E.	A-Sp	Harrison
Greenhaw, Frank Pierce	A-Sr	Harrison
Greer, Clyde	Ag-So	Eureka Springs
Greer, Ruth	Ed-F	Ozark
Greer, Thomas B.	Ag-So	Grandview
Gregory, Bryan T.	A-So	Fayetteville
Gregory, Claborn	E-T	Corsicana, Texas
Griffec, John Franklin	A-F	Little Rock
Gross, Eugenia	A-F	Eufaula, Okla.
Guisinger, Mildred Lee	HE-F	Fayetteville
Hack, Charlie	E-T	San Antonio, Texas
Haigwood, Hazel	A-Sr	Clarksville
Halbert, William H.	A-F	Bauxite
Hale, Evelyn Margaret	Ed-F	Prescott
Hale, Eugene Benjamin	Ag-So	Prescott
Hale, Grover C.	E-T	San Antonio, Texas
Hale, Walter Samuel	Ed-J	Camden
Haley, Lala Drucilla	A-F	Fayetteville
Hall, Lois Jewell	Ed-So	Webb City
Hall, Lonnie Elias	A-J	Fayetteville
Hall, Lynn Anthony	Ed-F	Eagle Mills
Hall, Orville Jacklin	Ag-J	Springdale
Hall, Robert Norton	E-Sr	Eagle Mills
Halley, Fred Elmer	A-F	Malvern
Hallman, Louis Elam	E-F	Nashville
Halwe, Freda Marie	A-F	Fayetteville
Hamilton, Daisy D.	HE-F	Waldron
Hamilton, James Norman	Ed-F	Pine Bluff
Hamilton, Nell Lucile	A-Sr	Hartford
Hamilton, Scott D.	A-Sr	Fayetteville
Hamm, Garland	Ed-Sp	Melbourne
Hammett, Thomas E.	E-J	Fayetteville
Hancock, Doy Lee	A-So	McAlester, Okla.
Hanegan, Allie McRae	HE-So	Hope
Hanes, Hall W.	E-T	Chicago, Ill.
Haney, Olen Knight	E-J	Aurora
Hanley, Claudia Ray	Ed-F	Tuckerman
Hanna, Mary Virginia	Ed-F	Fayetteville
Hannah, Leland Margaret	A-F	Wynne
Hansard, Fred G.	Ed-F	Fayetteville

Name	Course	Home Address
Hansard, Helen	Ed-F	Fayetteville
Harbison, Claude D.	ATC	Monticello
Hardin, Clifton	E-So	Fayetteville
Harding, Arthur L.	A-Sr	Fayetteville
Harding, Mary Frances	A-F	Fayetteville
Harding, William B.	Ed-So	Fayetteville
Hardy, Louise Naomi	Ed-Sr	Monticello
Harms, A. Elizabeth	A-F	Paris
Harper, Clio A.	A-J	Little Rock
Harrel, Jenilee	Ed-J	Tillar
Harrel, Robert Frank	A-So	Lewisville
Harris, Dorothy	Ed-So	Fort Smith
Harris, Fannie	HE-J	Fayetteville
Harris, Fred Earl	A-F	Waldron
Harris, George F.	ETC	Waco, Texas
Harris, Harold Hinkle	Ed-F	Melbourne
Harris, Ida Mae	Ed-F	Waldron
Harris, John B.	ATC	Greenwood
Harris, Naon Joe Harr.	A-F	Belleville
Harris, Walter Wilman	Ed-F	Fayetteville
Harris, William B.	A-F	Melbourne
Harrison, Grace	Ed-F	Fayetteville
Hart, Hugh Ross	E-F	Prescott
Hathfield, Walter B.	Ag-So	Paragould
Hathcock, Alfred H.	A-So	Fayetteville
Hathcock, Helen Lee	Ed-So	Locust Bayou
Hathcock, Preston L.	A-So	Fayetteville
Haulum, Henry Ernest	E-T	Walnut Ridge
Haven, Charlie Norval	A-F	Forrest City
Hawk, Arthur C.	A-F	Fayetteville
Hawk, Lillian Grace	HE-F	Fayetteville
Hawthorne, Greene B.	E-F	Waldron
Haynes, Elmer	A-F	Charleston
Hays, Colquette Earl	Ed-F	Atkins
Head, Claude Dedmon Jr.	A-F	Memphis, Tenn.
Head, James DeKalb	A-J	Texarkana
Heerwagen, Margaret	A-So	Fayetteville
Hemphill, John Anderson	Ag-J	Richmond
Henbest, Lloyd George	A-Sr	Fayetteville
Henbest, Ross Charles	Ed-F	Fayetteville
Henbest, Wayne Albert	Ed-F	Fayetteville
Hendricks, Thomas A.	A-F	Fort Smith
Henley, Ben Charles	A-F	Saint Joe
Henley, Noble J.	A-F	Marshall
Henry, Auda Lou	Ed-F	Fayetteville
Henry, Clara	A-J	Lake Village
Henry, George Aubry	A-F	Horatio
Henry, James Allen	A-F	North Little Rock
Henry, Lewis Murphy	A-J	Helena
Henry, Mabel	Ed-So	Helena
Henry, Mildred	Ed-So	Helena
Herman, Olin F.	Ed-F	Sarcocie, Mo.
Hermance, Albert H.	Ag-F	Springdale
Hernsbarger, Earl H.	A-F	Fordyce
Herrin, Myron Lynn	A-F	Henryetta, Okla.
Hester, Arthur Guy	A-F	Crossett
Hester, James Lynn	Ag-Sp	Lonoke
Heston, Emily Miriam	A-So	Westville, Okla.
Hickmon, Marshall	Ed-Sr	Bradford
Hicks, Daisy Jean	Ed-F	Warren
Hicks, Edwin Prentice	Ed-So	Greenwood
Hicks, Walter Edwin	E-Sr	Warren
Higgins, Midget Henrietta	Ed-So	DeVall's Bluff
Higgs, Bettie Jane	HE-So	Ashdown
Himstedt, Arthur E.	E-F	Little Rock

Name	Course	Home Address
Hinds, Hazel Stites.....	Ag-Sr.....	Rogers
Holder, Hazel Elizabeth.....	A-F.....	Fayetteville
Holder, Nina.....	A-So.....	Fayetteville
Hollabaugh, Cleveland B.....	A-So.....	Leslie
Hollis, Lynn.....	A-F.....	Little Rock
Hollis, Mildred C.....	Ed-So.....	Little Rock
Holmes, William Alexander.....	A-F.....	Paragould
Holt, Jack Wilson.....	Ed-F.....	Harrison
Holt, John Larkin.....	Ed-J.....	Harrison
Hon, Jackson.....	A-F.....	Waldron
Honea, Ben W.....	E-T.....	Lonoke
Hoops, Helen Jeretta.....	A-F.....	Crocker, Mo.
Hopper, Vance Edwin.....	E-F.....	Fayetteville
Hootin, George C.....	ATC.....	Checotah, Okla.
Horsfall, Frank.....	Ag-Sr.....	College Station
Horsfall, James Gordon.....	Ag-J.....	Monticello
Horton, Dennis Walter.....	A-F.....	Forrest City
Horton, Lloyd Frank.....	A-F.....	Siloam Springs
Horton, Paul Vernon.....	A-F.....	Arkadelphia
Houston, Gaines Neety.....	E-J.....	Little Rock
Howard, Isaac Wesley.....	A-J.....	Provo
Howard, Jack H.....	ATC.....	Mt. Calm, Texas
Howard, Virgie Marie.....	Ed-F.....	Mineral Springs
Hudgins, Mary Dengler.....	A-Sr.....	Hot Springs
Huey, Ellis John.....	A-F.....	Van Buren
Hulsey, Pearle.....	A-F.....	Okmulgee, Okla.
Humason, Guerdon W.....	ATC.....	Dallas, Texas
Humphrey, Frank Edwin.....	Ag-F.....	Hot Springs
Hunsucker, Bonnie Gene.....	A-F.....	Lockesburg
Hunt, Herman H.....	ATC.....	Klondike, Texas
Hunt, Richard Howard.....	A-F.....	Fayetteville
Hunter, Joseph William.....	A-So.....	Little Rock
Huskey, John Albert.....	A-F.....	Moorefield
Hutcheson, James Edwin.....	E-F.....	Magnolia
Hutcheson, Maye Virginia.....	A-F.....	Magnolia
Hutson, Louise Mary.....	A-F.....	Carlisle
Hvizdalek, Fred E.....	E-F.....	Fayetteville
Ingels, Neil Barton.....	E-F.....	Fort Smith
Irby, Ruby Jaunita.....	Ed-F.....	Fayetteville
Isbell, Fletcher F.....	A-F.....	DeQueen
Izard, Clyman Edward.....	A-F.....	Van Buren
Jacobs, Robert L.....	E-F.....	Melbourne
James, Audy R.....	ATC.....	Poteau, Okla.
Jamison, J. Edgar.....	A-So.....	Gillham
Japp, Gus.....	E-F.....	Hindsville
Jeffers, Harry Fenton.....	A-F.....	Hortshorne, Okla.
Jeffus, John M.....	A-Sp.....	Deport, Texas
Jernigan, Otis McCrory.....	E-F.....	McCrory
Jett, Wilbur.....	A-F.....	Little Rock
Jewell, Hazel V.....	Ed-F.....	Harris
Jewell, Margaret E.....	Ed-F.....	Fayetteville
Jobe, Virgil B.....	ATC.....	Fayetteville
Johns, Data Leta.....	HE-F.....	Paris
Johnson, Allean Ament.....	Ed-J.....	Foreman
Johnson, Florence Wealthy.....	A-J.....	Fayetteville
Johnson, John Chester.....	A-F.....	Wilmar
Johnson, Ilma Marie.....	Ed-F.....	Arkadelphia
Johnson, John James.....	A-F.....	Foreman
Johnson, Joyce Winnifred.....	Ed-So.....	Charleston
Johnson, Marshall Smith.....	Ag-F.....	Van Buren
Johnson, Maurean Mildred.....	Ed-So.....	Foreman
Johnson, Oliver Kepler.....	E-J.....	Fayetteville
Johnson, Robert Eugene.....	Ed-F.....	Fort Smith
Johnson, Rupert Price.....	E-Sr.....	Fayetteville
Johnson, William Albert.....	A-Sr.....	Fayetteville

Name	Course	Home Address
Johnston, Frances Irene.....	Ed-F.....	Ozark
Johnston, Jerome Babcock.....	Ag-F.....	Fort Smith
Johnston, Thomas.....	A-So.....	Imboden
Jones, Allen E.....	A-F.....	Elk City
Jones, Count.....	E-F.....	Hope
Jones, Gordy Monroe.....	Ed-F.....	Junction City
Jones, Horace Croom.....	A-Sr.....	Batesville
Jones, Hugh T.....	A-F.....	Gentry
Jones, Leonila.....	A-So.....	Marshall
Jones, Oscar Eve.....	A-Sp.....	Newport
Jones, Sarah Catherine.....	Ed-F.....	Forrest City
Jordan, Edyth.....	HE-J.....	Fayetteville
Kaplan, Ike William.....	A-F.....	Helena
Karnes, Oscar O.....	ATC.....	Pitkin
Karr, David L.....	E-T.....	Wister, Okla.
Keel, John Payton.....	Ag-F.....	Newport
Keeling, Aaron Thomas.....	Ed-F.....	Marshall
Keeseey, Charles Boyd.....	ATC.....	Tyler, Tex.
Kelley, Helen June.....	Ed-So.....	Fort Smith
Kellogg, Ruth Hosmer.....	Ed-F.....	Van Buren
Kennan, Clara Bernice.....	Ed-Sr.....	Rogers
Kennard, Mary Elizabeth.....	A-Sr.....	Fayetteville
Kent, Septemus Elmore.....	Ed-J.....	Hope
Kerr, Nollie Scott.....	A-F.....	Clarendon
Kerr, Olive May.....	HE-Sr.....	Fayetteville
Kersh, Warner.....	ATC.....	Hartford
Key, Hugh Benjamin.....	A-F.....	Fayetteville
Keys, Glynn John.....	Ed-F.....	Malvern
Kight, Hazel Van.....	A-F.....	Cordell, Okla.
Kight, Kenneth Kelso.....	A-So.....	Malvern
Kilgore, Dail Elzie.....	A-F.....	Fordyce
Kimbrough, Felia Albert.....	A-Sr.....	Fayetteville
King, Cyrus Miles.....	Ed-J.....	Fayetteville
King, Wendell Holland.....	A-F.....	Siloam Springs
Kirby, Lillian.....	A-F.....	Harrison
Kirkpatrick, Insley J.....	ATC.....	Summers
Kitchens, Myrtle Marie.....	A-F.....	Waldo
Kitchens, Stephen B.....	E-Sp.....	Paragould
Kitchens, Wade Hampton.....	A-F.....	Magnolia
Knott, George Haney.....	A-F.....	Bentonville
Koch, Marie E.....	Ed-J.....	Carlisle
Kuykendall, L. Roy.....	E-Sr.....	Little Rock
Kuehnert, Edward Raymond.....	A-F.....	Lowell
Kyles, Augusta J.....	E-Sp.....	Fayetteville
Kyte, Frank C.....	Ed-F.....	Helena
Lafferty, John Lowell.....	A-F.....	Little Rock
LaGrone, Robert.....	A-J.....	Hope
Lambert, Carmen Pairlee.....	A-So.....	Charleston
Land, Henry Grady.....	ATC.....	Russellville
Lane, Myrle Frank.....	E-So.....	Rogers
Lane, William L.....	ATC.....	Bridgeport, Texas
Lano, Ruth.....	Ed-Sp.....	Fayetteville
Laseter, Fred.....	E-Sp.....	Hope
Latimer, Dorothy Gene.....	Ed-F.....	Fayetteville
Latimer, Elizabeth M.....	Ed-F.....	Fayetteville
Latimer, Farris Newton.....	A-Sr.....	Corning
Lauck, Chester Harris.....	A-Sp.....	Mena
Lauck, Ellen Mary.....	Ed-F.....	Mena
Lavendusky, Albert.....	E-T.....	East Benard
Lawrence, Charles E.....	E-F.....	Tuckerman
Lawson, Ernest H.....	ATC.....	Scottsville
Leake, James Prentiss.....	A-J.....	Junction City
Lee, Henry K.....	E-So.....	Eudora
Leeper, Marvin Tidwell.....	E-So.....	Benton
Leflar, Ida May.....	Ed-So.....	Siloam Springs

Name	Course	Home Address
Leighton, Neuman	A-So	Cotton Plant
Lemley, Fay Columbus	Ag-Sp	Van Buren
Lenon, Warren E.	A-J	Little Rock
Leonard, Elston Stewart	Ag-J	Fayetteville
Lewis, Bessie	Ed-F	Fayetteville
Lewis, Earl Boling	Ed-F	Van Buren
Lewis, Edith Adelaide	Ed-F	Siloam Springs
Lewis, George Henry	E-T	Lamar
Lewis, Herbert Anderson	A-So	Fayetteville
Lewis, Howard M.	Ag-F	Fayetteville
Lichty, Ernest C.	E-F	Fort Smith
Lichty, Selwyn J.	E-F	Fort Smith
Liebolt, Frederick L.	A-So	Fayetteville
Lighton, Peggy Sue	A-So	Fayetteville
Linthicum, John Charles	A-J	Little Rock
Linton, Thomas M.	ATC	Hoyt
Little, Marshall M.	Ed-J	Bauxite
Little, Oliver Leroy	E-F	Cabot
Little, Sam Dana	A-F	Conway
Littlefield, Bess Louise	HE-F	Fort Smith
Loden, John Warner	E-Sp	Fort Smith
Long, Jewell	HE-F	Fayetteville
Lovell, Lasco Gaines	E-J	Springdale
Lowdermilk, Ford Raphael	A-So	Judsonia
Lowe, Pearle	Ed-F	Little Rock
Lucas, Ruth Leah	Ed-F	Fayetteville
Luck, Benjamin Dane	A-F	Helena
Lund, Carl F.	Ag-F	Fayetteville
Lyford, George T.	A-F	Helena
Lyons, Mary Lee	A-Sr	Strong
Mabray, Cecil Dorothea	Ed-F	Muldrow, Okla.
Mabray, Otway Theodore	A-F	Muldrow, Okla.
Maddox, James Gray	A-F	Rison
Magers, Raymond G.	E-T	Murchison, Tex.
Magness, Guy Norton	Ed-S	Lead Hill
Magness, William Grady	Ed-F	Lead Hill
Mahan, Hazel Margaret	A-So	Denton, Texas
Mailer James I.	A-Sr	Fort Smith
Malone, William Charles	A-So	Plummerville
Mann, William H. Jr.	A-F	Little Rock
Manyhouse, John Fred	A-Sp	El Dorado
Marak, Charles Tom	E-J	Hazen
Marks, Armond Morton	Ed-F	Fort Smith
Marks, Neal	E-So	Kingsland
Marsh, Neil C. Jr.	A-F	El Dorado
Martin, Curry Walter	E-J	Newport
Martin, Edgar T.	E-So	Gentry
Martin, Gilbert H.	A-J	Pine Bluff
Martin, Homer T.	ATC	Everton
Martin, William Ferguson	A-So	Russellville
Mason, Ruic Coin	E-Sr	Bentonville
Mast, Elvira E.	A-Sr	Little Rock
Matlock, Lucy Mae	Ag-So	Fort Smith
Matthews, Charles M. Jr.	E-Sr	Lake Village
Mattox, Elizabeth James	Ed-F	Texarkana
Maxfield, Alice	A-J	Pasadena, Calif.
Maxwell, Carl B.	A-So	Osceola
Mayberry, Marie	Ed-So	Claremore
Mays, Edward Duke	A-So	Marianna
Mays, Lula Alma	Ed-F	Fayetteville
McAdams, William B.	E-T	Clifton, Texas
McAllister, Ila	HE-Sr	Fayetteville
McAllister, Max F.	A-F	Fayetteville
McCabe, Louie C.	A-F	Fort Smith
McCain, Hugh Mark	E-J	Monticello

Name	Course	Home Address
McCain, Lester Albert	E-Sp	North Little Rock
McCarroll, Otto G.	Ag-F	North Little Rock
McCarthy, Charles Lewis	E-F	Little Rock
McCatherine, Maxine C.	A-F	Fayetteville
McCatherine, Thelma	HE-J	Fayetteville
McClelland, Roy	A-F	Grand View
McClinton, Theron Harrol	A-F	Fort Smith
McClure, Kittie M.	Ed-F	Muskogee, Okla.
McClure, Lillian F.	Ed-F	Muskogee, Okla.
McColloch, Carrick L.	Ag-Sr	Lincoln
McColloch, Laura Frances	HE-So	Lincoln
McCoy, Esther	A-So	Coffeyville, Kan.
McCoy, Francis Milton	Ed-F	Coffeyville, Kan.
McCoy, Guy Dale	E-F	Morrilton
McCoy, Joseph Warren	A-F	Malvern
McCrory, Moya Lee	Ag-F	Mt. Enterprise, Tex.
McDaniel, Aubrey	E-J	Fayetteville
McDonald, Angus Henry	A-So	Fayetteville
McDonald, DeKalb L.	A-So	Junction City
McDowell, Harry Bourne	E-Sr	Little Rock
McElroy, Callie Mae	A-F	Wynne
McEver, Melbourne L.	E-F	Itasca, Texas
McFaddin, John Garland	Ed-F	Russellville
McGaugh, Etna	HE-F	Decatur
McGaugh, Louise	HE-F	Decatur
McGee, Bordon M.	E-J	Hondley, Texas
McGehee, Edward P.	E-F	Lake Village
McGehee, Ora	Ed-So	Piggott
McGill, Annie Scott	HE-J	Chidester
McGill, Josephine	Ed-J	Chidester
McGill, Robert Leighton	Ag-F	Chidester
McGill, Samuel Alexander	A-F	Lewisville
McGuire, John Clifford	Ag-So	Piggott
McIlroy, Mertye Brooks	Ed-Sp	Fayetteville
McKeehan, Sam Paris	A-So	Hot Springs
McKenzie, Arthur Ray	Ed-Sr	Booneville
McKinney, George T.	A-F	Wagoner, Okla.
McKissack, Gordon R.	E-T	James, Texas
McKnight, Frank Eugene	Ed-F	Wynne
McKnight, R. B. Jr.	E-So	Parkin
McMurtrey, Thomas Henry	A-F	Cameron
McNair, Alice Elizabeth	A-Sr	Fayetteville
McNutt, James L.	E-F	Arkadelphia
McPhetridge, Iris Louise	Ed-So	Beltonville
McRae, Dorothy Brady	A-So	Hope
McRae, Hamilton Eugene	A-So	Helena
McWorkman, Holt H.	A-F	Gentry
McRaven, Charles H.	E-F	Little Rock
Meek, James Hamilton	A-F	Camden
Meeker, Orval George	Ed-F	Decatur
Mehaffey, J. Pat	A-F	Little Rock
Mehlburger, Max Arthur	E-So	Fort Smith
Mellor, Grace Elizabeth	A-Sr	El Dorado
Metcalfe, Melville Ellis	A-F	Eufaula, Okla.
Metcalf, Walter Lauth	E-F	Eufaula, Okla.
Meyer, Carrie	Ed-F	Mabelvale
Mikles, Richard C.	E-T	Magazine
Miles, Charlotte	Ed-So	Fort Smith
Miles, Gertrude Ellis	Ed-So	Fayetteville
Miller, Adabelle	Ed-F	Fayetteville
Miller, Amanda Harris	A-Sr	Hot Springs
Miller, Jacob W.	Ed-Sp	Fayetteville
Miller, Lelia Ray	Ed-Sp	Fayetteville
Miller, Louise Elizabeth	A-F	Van Buren
Miller, Robert Walter	A-F	Fayetteville

Name	Course	Home Address
Miller, Ruth Grace	Ed-So	Fayetteville
Miller, Ruth Oden	Ed-Sp	Van Buren
Milliken, Alice Forbes	Ed-J	Little Rock
Mills, Vernon Scott	E-T	Fayetteville
Milwee, Minor Wallace	A-Sr	Horatio
Mintun, Helen Pauline	A-F	Fayetteville
Mitchell, Fannie Elizabeth	HE-F	Chismville
Molier, Joseph Victor	E-T	Fayetteville
Monroe, Claude	Ed-F	Waldron
Moody, Terry Weaver	E-T	DeQueen
Moore, Arl Van	A-F	Huntington
Moore, Berry Lee	Ed-F	El Dorado
Moore, Eldon	A-F	Cane Hill
Moore, Jerome T.	E-F	Fayetteville
Moore, Joseph Nolen	E-T	Fayetteville
Moore, Nannie Maude	Ed-So	Lincoln
Moore, Thomas L.	E-T	Floresville, Texas
Morgan, Claude Cecil	Ed-F	El Dorado
Morgensen, Glenn William	E-T	Snyder, Okla.
Morrill, Ann Virginia	Ed-F	DeVall's Bluff
Morris, Gerald L.	A-F	McCrory
Morris, Hazel	A-J	Newport
Morris, Robert L.	A-J	Fort Smith
Morrison, Roma Lucille	Ed-So	Fayetteville
Morrow, Myrle Mae	HE-F	Fayetteville
Morton, Lock Dean	Ed-F	Fayetteville
Mosely, Maurice Jackson	A-So	Alicia
Mosley, Wiley William	A-F	Rison
Moss, Ira Lee	E-F	Maysville
Mount, Florence	A-F	Hot Springs
Mountcastle, Walter E.	Ag-F	West Fork
Mulkey, Mary Elise	A-Sr	Nashville
Murphy, Leo	A-So	Junction City
Murphy, Ellen Mary	Ed-F	Paris
Murray, Carol Mills	A-F	El Dorado
Muse, M. Preston	Ed-F	Junction City
Musselman, Glenn E.	E-So	Eureka Springs
Nay, George Leroy	A-F	Muskogee, Okla.
Neal, William E.	E-T	Hollygrove
Nelson, Mildred Estelle	Ed-Fr	Stamps
Nelson, Seab Sam	E-T	Barber
Nettleship, Mary Frances	HE-F	Fayetteville
Nettleship, Thelma E.	Ed-So	Fayetteville
Newman, Ruth Virginia	A-Jr	Little Rock
Newsom, Russell M.	E-F	Wynne
Newton, John Ward	A-F	Camden
Nichols, Elmer Fred	E-So	Gillett
Nichols, Evelyn S.	A-F	Carlisle
Nichols, Earl Greer	A-Sr	Ozark
Norbury, Joe B.	A-Jr	Fayetteville
Norris, Mary Virginia	Ed-Sr	Fort Smith
Norwood, Floy	Ed-F	Russellville
Norwood, Mary Frances	Ed-F	Lockesburg
Oakley, Helen Elizabeth	HE-F	Fayetteville
Oakley, John Ferdinand	A-J	Fayetteville
Oakley, Margaret	HE-Sr	Fayetteville
O'Bar, Alfred Seth	E-So	Charleston
O'Brien, James Garmon	A-F	Fort Smith
O'Bryan, Kenneth Clyde	Ag-So	Little Rock
O'Kelley, Arlie Adrain	Ed-So	Little Rock
Olin, John Frank	A-So	Fayetteville
Oliver, Ruth Frances	Ed-F	Corning
Oliver, Wilbert Huron	E-F	Wabash
Opry, Jessie Leah	Ed-F	Fayetteville
Opry, Thelma	Ed-F	Fayetteville

Name	Course	Home Address
Orr, Annie Lee	Ed-F	Hot Springs
Orr, Nancy May	Ed-F	Hot Springs
Orton, Juliet Stuart	A-F	Ashdown
Osburn, Irvin Fischer	A-So	Paris
Osteen, Phyllis Louise	A-F	Fort Smith
Overman, Richard Elliot, Jr.	E-So	Little Rock
Overton, Sue Belle	HE-J	Pine Bluff
Owen, Curtis Dawson	A-F	Fayetteville
Owen, Nancy Ethel	HE-Sr	Rest
Owens, Margaret Amelia	Ed-So	Rogers
Owens, Whitten Burdette	A-F	Gillett
Ownbey, Julian Parker	A-F	Springdale
Ownbey, Virginia	A-J	Springdale
Padgett, Eustes Victor	E-F	Muskogee, Okla.
Paice, Adkins Paul	E-T	Van Buren
Paisley, Elizabeth	A-So	Fayetteville
Paisley, William Merrell	A-Jr	Fayetteville
Palmer, Charles Edwin	A-Sr	Verona, Penn.
Palmer, Mamie Aileen	HE-So	Pine Bluff
Palmer, Virginia May	HE-F	Verona, Penn.
Pankhurst, Mrs. Opal J.	Ed-So	Fayetteville
Pankhurst, Homer S.	E-T	LaFayette, Texas
Paris, Ray H.	E-So	Mena
Parish, John Fred.	A-F	Newport
Parker, Chandos Aaron	A-F	Ratcliff
Parker, Curtis Lambert	Ed-J	Winthrop
Parker, Frances	HE-J	Fayetteville
Parker, John Nunn	A-So	Fort Smith
Parker, John Thomas	A-F	Little Rock
Parker, Lovinia Marie	HE-F	DeVall's Bluff
Parker, Parker	A-Sr	Dardanelle
Parker, Rector Gabel	A-F	Elaine
Parkes, Edmundson	E-J	Pine Bluff
Parkinson, William Harris	E-So	Hazen
Parks, Bryan	A-So	Fort Smith
Parmenter, Lovina Harriet	A-F	Muskogee, Okla.
Parrish, Norma Alfred	E-So	Piggott
Parsley, Joyce Uarda	Ed-So	Fayetteville
Parsley, Mary Leola	Ed-So	Rogers
Patterson, Jennings Asbury	A-F	Conway
Patterson, Lillian Elizabeth	A-F	Osceola
Pattillo, Jean C.	A-Sp	Fayetteville
Patton, Lucille Maurine	A-F	Muskogee, Okla.
Paul, Frank Burns	ATC	Bentonville
Pearson, Mabel Catherine	HE-J	Zwalle, La.
Pendergrass, John	E-So	Fort Smith
Perix, Lex Lanier	Ed-F	Lead Hill
Perkins, Hazel Ethel	Ed-F	Bentonville
Perkins, Roscoe	Ed-F	Ratcliff
Perrill, Margaret C.	Ed-Sp	Fayetteville
Peter, Theodore Edward	E-F	Creigh
Peters, Joseph L.	ATC	Los Angeles, Cal.
Pettie, John Hawthorne	A-J	Little Rock
Pettigrew, Ace Lawson	A-F	Farmington
Pettigrew, George M.	A-So	Fort Smith
Pettigrew, Katherine Mary	Ed-So	Fort Smith
Philbeck, Kenneth William	Ed-F	Fayetteville
Phillips, Clyde Moore	A-So	Texarkana
Phillips, Grace	Ed-F	Fayetteville
Phillips, John M.	E-T	Fayetteville
Phillips, Julie	HE-F	Fayetteville
Pickel, Elbert J.	Ag-F	Fayetteville
Pierce, Edward	ATC	Fayetteville
Pinkerton, Doris Anita	Ed-Sp	Fayetteville
Pinkerton, Earl Irene	Ed-J	Russellville

Name	Course	Home Address
Pinkerton, Guy William	Ed-F	Fayetteville
Pittman, Walker Young	A-F	Magnolia
Pitts, Albert	E-T	Heavener, Okla.
Plunkett, Carrie H.	A-Sp	Fort Smith
Pixley, William C.	E-T	Mt. Enterprise, Tex.
Poe, Sam Edgar	Ag-Sr	Waldron
Poe, Willie Edison	Ag-So	Waldron
Pogue, Anastasia	Ed-F	Pine Bluff
Polk, Walton E.	Ed-J	Fayetteville
Pollock, Otto G.	E-F	Fort Smith
Polson, Charles Orman	A-F	Fort Smith
Porter, Harold	ATC	Holdenville, Tex.
Porter, Jeff Davis	A-F	Ozark
Porterfield, Earl Davis	Ag-F	Fayetteville
Posey, Spencer Boyd	A-J	Hot Springs
Potter, Frances	Ed-So	Warren
Pratt, Vocile Manlove	A-So	Okmulgee, Okla.
Price, Marvinne	A-So	Fayetteville
Price, Mary Frances	A-J	Little Rock
Probst, Ruth Isabelle	A-F	Gillett
Ptak, Marie Alice	Ed-So	Fayetteville
Pugh, Bernice Opal	A-So	Fayetteville
Pugh, James Wilkes	A-Jr	Fayetteville
Purcell, John Junior	A-So	Paragould
Purdy, Russell Talpee	E-J	Fordyce
Purifoy, Eleanor	A-F	El Dorado
Purifoy, Leslie A.	A-J	Chidester
Putman, Frank	A-F	Fort Smith
Pyle, Cecil	A-F	Huttig
Qualls, William A.	E-T	Luxora
Quarles, Virginia Caro	A-So	Van Buren
Radican, Edward William	E-F	Fayetteville
Radican, Joe Glennon	E-So	Fayetteville
Rainwater, Elmer Hubert	A-J	Hoxie
Ramsey, Warren A.	E-T	Wilburn
Randolph, Elmer Ellsworth	Ed-F	Jonesboro
Ray, Ralph Edward	A-J	Stuttgart
Rayburn, Martha Elizabeth	Ed-So	Little Rock
Reagan, Estelle Rowena	Ed-So	Huttig
Rebsamen, Lloyd M.	E-So	Fort Smith
Reed, Frank, Jr.	E-F	Monett, Mo.
Reed, Ruth	HE-F	Springdale
Reeser, Gladys Ellen	A-Sr	Jacksonville
Renfro, Elza	A-J	Fayetteville
Renner, Joe Welton	A-F	Fayetteville
Renner, William Maurice	Ag-So	Fayetteville
Requa, Ronald Alexander	E-F	Everett, Wash.
Reyolds, Edward Taylor	E-F	Little Rock
Rhoten, Hazel Laura	E-F	Fayetteville
Rhoten, Nettie Rebecca	Ed-F	Fayetteville
Richards, Margaret Josephine	A-J	Little Rock
Richardson, Junius Charles	A-So	Paragould
Rich, Pattie Sue	HE-So	Cotton Plant
Rieff, Thelma	A-J	Fayetteville
Riner, Blanche Louise	A-F	Fayetteville
Riner, Leo J.	A-F	Pine Bluff
Ripley, Kenneth Clay	E-So	Fayetteville
Ripley, Vincent	A-Sr	Fayetteville
Rives, Eugenia	HE-F	Marianna
Robbins, Rector Allen	E-T	Telephone, Texas
Roberts, Theodore	E-T	Thackerville, Okla.
Robertson, Harry Dunbar	E-T	Fayetteville
Robins, Neill Rhea	E-T	Salem
Robinson, Cecil Dodson	A-F	El Dorado
Robinson, Charles Ulric	Ag-J	Centerton

Name	Course	Home Address
Robinson, Elmer Oscar	A-F	Wynne
Robinson, William T.	Ed-So	Lonoke
Robben, Louis Parker	E-T	Dardanelle
Rodgers, Carlin Lanier	Ag-J	Gravette
Rodgers, Clyde Dudley	A-F	DeWitt
Rodgers, Joe	ATC	Konowa, Okla.
Rogers, Roger William	A-So	Fort Smith
Rogers, Yandell	Ed-J	Rogers
Roland, Isaac Houston	A-J	Malvern
Root, Duke Martin	Ag-Sr	Fayetteville
Root, Harold L.	E-J	Vale
Rose, Ruben J.	E-T	Gumlog
Ross, Dewey T.	E-So	Fayetteville
Ross, Fred George Carl	E-So	Little Rock
Rothrock, Mrs. Zelma	A-Sp	Prairie Grove
Rowin, George E.	E-T	Walnut Grove, Mo.
Rowland, William Thomas	E-F	Fort Smith
Ruble, Anna Agnes	Ed-So	Fayetteville
Rucker, Jefferson Davis	E-So	Bauxite
Ruckman, Charles	E-So	Fayetteville
Rudolph, Winfred Beth	E-I	Fayetteville
Russell, James Alfred	E-Fr	Little Rock
Russell, Mary Emily	HE-Sr	Pine Bluff
Russell, Mettie Jeanette	Ed-So	Fayetteville
Russell, Rose	Ed-So	Fayetteville
Russell, Thomas Walton	Ag-F	Pine Bluff
Rutherford, Gladys Catherine	HE-F	Fayetteville
Sadler, Winford Howe	Ed-F	Paris
Sager, Helen M.	Ed-So	Tulsa, Okla.
Sallee, Albert S.	ATC	Van Buren
Salyers, Robert	E-T	Florence, Texas
Salyers, Ruth	Ed-So	Fort Smith
Sanders, Dorothy Lee	A-J	Springdale
Sanders, Lovina	HE-F	Hope
Sanders, Robert E.	ATC	Tulsa, Okla.
Sanderson, Gertrude	Ed-F	Texasarkana
Sandford, Claude H. Jr.	E-So	Fayetteville
Sandford, Dorothy Nell	HE-So	Fayetteville
Scarborough, Floy M.	Ed-F	DeQueen
Scarborough, Samuel O.	Ag-F	DeQueen
Schaaf, Hastletine	A-So	Paragould
Schader, Fredericka Lyman	A-So	Little Rock
Schilling, George Silas	HE-Sr	Fayetteville
Schmuck, Lydia Mae	HE-So	Little Rock
Schultz, James Wilson	E-T	Garwin, Okla.
Scoggin, Juanise	HE-I	Fort Smith
Scott, Brad	Ag-F	Prescott
Scott, Karl M.	A-J	Fayetteville
Scott, Nancye	Ed-F	Helena
Scrivner, Coy	E-T	Troy, Texas
Scurlock, John Doyle	A-F	Piggott
Seale, David Walter	Ed-F	Lake Village
Seamster, Leona Ruble	Ed-F	Fayetteville
Selle, Laurena Laura	A-F	Fayetteville
Sensing, Ruby Mae	A-So	Fayetteville
Senyard, William Howard	A-So	Pine Bluff
Sessions, William Anderson	A-So	Helena
Sessums, Ernest A.	E-So	Dallas, Texas
Shackleford, William Henry	A-F	Little Rock
Shafer, Theodora Genevieve	Ed-So	Fayetteville
Sharp, Joyce Reetta	Ed-F	Osceola
Sharp, Linn Lewis	A-So	Fayetteville
Sharp, Ora Mae	HE-F	Alma
Shaw, Bruce Homiman	Ag-So	Pine Bluff
Shaw, Ernest Irwin	A-So	Hot Springs

Name	Course	Home Address
Shaw, Lawrence G.	ATC	Texarkana
Sheffield, James George	E-F	Fayetteville
Shelley, Sebastian M.	E-T	Midland
Shelton, George G.	A-So	Paris, Texas
Sheppard, Dorothy Rose	HE-So	Fayetteville
Sheppard, Murray Gerard	A-F	Fayetteville
Shill, Ruth H.	Ed-F	Fayetteville
Shinn, Martha Elizabeth	Ed-F	Harrison
Shinn, Silas Emmett	A-J	Russellville
Shope, Harlan Duncan	E-J	Redfield
Shores, Louise Frances	A-So	Little Rock
Shuller, Benjamin Franklin	A-J	Ozark
Shurley, Marion I.	ATC	Wilburton, Okla.
Simon, Patrick	ATC	Van Buren
Simmons, Thomas Lott	E-F	Benton
Simpson, John D.	Ed-So	Summers
Sims, Harry Boyd	A-So	Plummerville
Singleton, Mary Margeret	A-F	Searcy
Sipe, Paul Wilson	Ag-F	Fort Smith
Sittel, Clementine	HE-J	McAlester, Okla.
Skelton, Helen	HE-J	Fort Smith
Skinner, Samuel Earl	A-F	Lockesburg
Slate, Benjamin Isaac	Ed-F	Mansfield
Slaughter, Frances Christian	Ed-F	Fayetteville
Slaughter, Jesse Lee	E-So	Junction City
Smith, Austin Cline	A-F	Cabot
Smith, Carl A.	Ag-Jr	Fayetteville
Smith, Emma Cloud	Ed-So	Conway
Smith, Emory Charles	E-T	Paris, Texas
Smith, Forrest Aubrey	Ag-F	Mist
Smith, Frank Harold	E-So	Fayetteville
Smith, Fred Alfred	Ag-J	Springdale
Smith, George Wilson	E-T	Canton, Okla.
Smith, Irene	Ed-So	Little Rock
Smith, James T.	Ag-F	Osceola
Smith, John Marshall	E-F	Harrisburg
Smith, J. Preston Jr.	E-F	Fayetteville
Smith, Mary Elizabeth	A-So	Paris
Smith, Maude Lelia	HE-J	Moscow
Smith, Minor Wallace	Ag-F	El Dorado
Smith, Olive Beatrice	HE-So	Fane, Okla.
Smith, Owen Allen	A-F	Kingsville, Tex.
Smith, P. Armon	Ag-J	Hamburg
Smith, Ruie Ann	A-F	Van Buren
Smith, Terry Stephen	A-F	Fayetteville
Smyer, Richard	E-F	Springdale
Snodgrass, John Patrick	A-F	Little Rock
Snodgrass, William Anderson, Jr.	A-So	Little Rock
Spann, Edward	E-T	Waskom
Spence, Lillard F.	E-T	Fayetteville
Spencer, George H.	A-J	Monticello
Spencer, Warren Russell	Ag-Sp	Fayetteville
Spikes, James Lewis	Ed-J	Pocahontas
Spradling, Mae	Ed-F	Heber Springs
Spruell, Gladys May	Ed-So	Fort Smith
Stanford, Malcolm Foster	Ag-So	Fayetteville
Stark, Martha Leorlene	HE-So	Neosho, Mo.
Staton, William P.	A-So	Wichita Falls, Texas
Stearns, John T.	A-So	Fayetteville
Steele, Harold Louis	E-F	DeQueen
Stephens, Edna Buell	A-F	Spiro, Okla.
Stevenson, Albert Edward	E-T	North Little Rock
Stevenson, James Anne	E-So	Van Buren
Stewart, Don W.	A-F	Kenosha, Wis.
Stewart, Gregsby	A-F	Wynne

Name	Course	Home Address
Stewart, Ned Alexander	A-J	Lewisville
Stewart, Willard Wilson	Ed-F	Fayetteville
Stinson, Lawrence Watkins	E-Sp	Fayetteville
Stockburger, Floyd Herbert	Ag-So	Siloam Springs
Stokes, Dixon R.	E-T	Springdale
Storey, Frank Anderson, Jr.	A-So	Malvern
Story, Rudolph Ovey	E-F	Dierks
Stough, Gerald D.	E-F	Fort Smith
Strain, Marjorie Lucille	HE-F	Fayetteville
Strange, Benjamin F.	E-T	Spiro, Okla.
Stroud, John Paul	E-J	Oxford
Stubblefield, Garland A.	Ed-J	Fayetteville
Stubblefield, Laverne	A-So	Fayetteville
Stubblefield, Ralph Errol	Ag-So	Fayetteville
Stubblefield, William Hugh	Ag-So	Fayetteville
Sugg, Barney Alga	Ed-J	Belleville
Sutton, Lucile	HE-So	Little Rock
Swartz, Joseph	ATC	Fayetteville
Sweet, Fern	HE-F	Siloam Springs
Swor, Harvey Hobson	E-T	Shreveport, La.
Talbert, Lois Marion	HE-So	Little Rock
Tatum, Lucian	A-So	Jonesboro
Tatum, Madge Whittington	Ed-F	Wynne
Taylor, George Ewell	Ag-So	Slocomb
Teeter, Glenn Lewis	Ag-J	Pottsville
Terry, Dennie Bancroft	E-F	Tillar
Terry, Frank Alexander	A-F	Fayetteville
Terry, Marjorie	Ed-So	Fayetteville
Thomas, Carma Athleen	Ed-I	Fayetteville
Thomas, Eva Mae	Ag-F	Fayetteville
Thomas, John Archie	E-F	Heber Springs
Thomas, Mary Elizabeth	A-F	Fayetteville
Thomas, Minnie Magdalene	A-J	Fayetteville
Thomas, Thelma Athera	A-F	Fayetteville
Thomas, Travis Raye	Ag-J	Magnolia
Thomas, Zelma Obera	A-F	Fayetteville
Thomason, S. Arrelion	Ag-Sr	Warren
Thompson, Aldah	Ed-Sp	Fayetteville
Thompson, Frank Earle	A-F	Little Rock
Thompson, Harry Pat	A-F	Preactor
Thompson, Samuel Powell	A-F	Marked Tree
Thornberry, Marion	A-J	Fayetteville
Thrasher, Marvin J.	E-So	Piggott
Tidball, Dabney Lee	Ag-F	Fayetteville
Tidball, Paul Brandon	A-F	Fayetteville
Tidball, Virginia	A-So	Fayetteville
Toalson, Carl L.	A-J	Corning
Tomek, Louis John	E-T	Cove
Toney, Mary Josephine	Ed-So	Pine Bluff
Triplett, Fritz	Ed-F	Van Buren
Townsend, Hugh Wallace	Ed-Sp	Mena
Trumbo, Donald	A-F	Muskogee, Okla.
Tuck, Deloha Elizabeth	A-J	Fayetteville
Tuepker, Delmar Jackson	A-F	Okmulgee, Okla.
Tunstill, Edythe Marjorie	HE-F	Fayetteville
Tunstill, Ethyle Ruth	Ed-So	Fayetteville
Tuohey, James Fred	E-So	Little Rock
Turner, Arra Graves	Ed-F	Little Rock
Turner, Fay	HE-F	Heber Springs
Turner, Marjorie	Ed-F	Atkins
Turner, Roy James	A-F	North Little Rock
Uhl, Agnes Sue	Ed-J	Fayetteville
Uhl, Edith	HE-Sr	Fayetteville
Umsted, Elbert Owen	Ed-J	Newport
Utley, Annie Marie	A-So	Paris

Name	Course	Home Address
Vaden, Josephine Lula	A-F	Marianna
Van Frank, Emily Elizabeth	A-F	Little Rock
Van Note, Carl O.	E-T	St. Joe
Vaughn, Alfred Jefferson	A-F	Clarendon
Vick, John Marion	A-J	Fayetteville
Vincenheller, Mary Virginia	A-So	Fayetteville
Vise, Mrs. Bertha Bethal	Ed-F	Waldron
Wade, Hazel Howard	HE-F	Brinkley
Wade, Warren Benjamin	A-Sr	College Park, Ga.
Waggoner, Charles E.	E-T	Olvey
Wagner, Mildred Ruth	A-F	Fayetteville
Waits, Silas L.	ATC	Page, Okla.
Walden, Georgia Leonard	A-F	Fayetteville
Wales, Ernest Lafayette	E-Sr	Mammoth Spring
Walker, Brad R.	Ed-F	Marble
Walker, James Barry	E-J	Dardanelle
Walker, James Douglas	A-So	Paris
Wall, Charles Graham	A-F	Pine Pluff
Wall, Harry Boykin	E-So	Marked Tree
Wallace, Jack Kelso	A-J	Magnolia
Walsh, Carrol H.	E-F	Crossett
Walsh, Ralph Augustus	A-F	Rogers
Ward, Fwing	Ag-So	Optimus
Ward, Irene Bateman	A-F	Little Rock
Ward, John	Ag-Sr	Fayetteville
Ward, Larry Edgar	E-T	Eudora
Ware, George Whitaker	Ag-Sr	Levesque
Warner, Thomas Duane	A-So	Jonesboro
Warram, James Heber	Ed-J	Fort Smith
Wasson, James Henry	E-F	Denning
Watkins, Anthony Wayne	E-F	Jonesboro
Watkins, Edward William	Ed-Sp	Mena
Watson, Agnes	A-F	Jonesboro
Watson, Eugene H.	A-F	Amity
Watson, Grace Hazeltime	A-Sr	Fayetteville
Watson, James R.	ATC	Joplin
Watts, Mary Jane	A-So	Fort Smith
Way, Alene Beall	A-So	Muskogee, Okla.
Webb, Harry Milwee	E-F	State Line, Miss.
Weber, Mrs. Lydia Ullrich	Ed-Sp	Fayetteville
Webster, Russell Merle	E-F	Fayetteville
Welborn, William A.	ATC	Frederick, Okla.
Welch, Charles Morris	Ed-F	Little Rock
Welch, Freeman Otto	Ed-F	Cotton Plant
Wellborn, Robert Morgan	A-Sp	Texarkana
Wells, John Fenton	A-J	Little Rock
Westpheling, Mary Elizabeth	Ed-Sr	Fayetteville
Whaley, Adelia	Ed-F	McNeil
Whaley, Arley Thurber	A-So	McNeil
Wharton, Carroll May	A-F	El Dorado
Wharton, John Hugh	A-Sp	El Dorado
Wheeler, Elwyn P.	E-So	Conway
Wheelis, Wallace Clark	A-F	Strong
Whitaker, Gilbert Riley	E-J	Stillwell, Okla.
Whitcomb, Beulah Irene	Ed-So	Fayetteville
White, Anne Elizabeth	A-F	Texarkana
White, Bolling Sidney	E-F	Jinny Lind
White, James Arlis	A-F	Prescott
White, Edwin Dean	Ag-I	Fayetteville
White, Elmer Bilba	Ag-So	Stillwell, Okla.
White, Herman S.	ATC	Charleston
White, Hugh Hays	E-T	Houston, Texas
White, Jap	A-F	Osceola
White, Nathan Penley	E-So	Ward Hill, Mass.
White, Otto	A-So	Fayetteville

Name	Course	Home Address
White, Ruby	Ag-So	Stilwell, Okla.
Whitlow, George Samuel	E-Sr	Hamburg
Whitten, Clara Dell	Ed-F	Fayetteville
Whitten, Robert Walter	A-F	Paris, Tex.
Wilburn, Ora Lillian	Ed-So	Fort Smith
Wilkin, Charles Robert	A-So	DeVall's Bluff
Williams, Byron, Jr.	A-F	Fort Smith
Williams, Emanuel D.	ATC	Fayetteville
Williams, Lola	HE-So	Fayetteville
Williams, Marjorie	A-So	Fort Smith
Williams, Maxville Alice	E-F	Mount Ida
Williams, Tom Littleton	Ed-So	Mangum, Okla.
Williams, Vernon	E-Sr	Mount Ida
Williams, Virgil	E-Sr	Mount Ida
Williams, Wallace Audley	A-F	Elk City, Okla.
Williamson, Melvin Edward	E-T	Hanson, Okla.
Williford, John Herndon	E-F	Rison
Wilroy, Frances Meredith	A-Sp	El Dorado
Wilson, Berlin Alexandria	E-F	North Little Rock
Wilson, Charles Morrow	A-So	Fayetteville
Wilson, Ernest Dayle	E-So	Fort Smith
Wilson, Evelyn Louise	A-Sr	Russellville
Wilson, Hudson H.	A-F	Magnolia
Wilson, Mildred Lucille	HE-F	Jacksonville
Wilson, Osie W.	E-So	Harrison
Wilson, William Thaddeus	Ag-J	Fayetteville
Winfrey, Ralph	Ag-F	Fayetteville
Winkleman, Charlie Dan	Ed-F	Fayetteville
Witcher, Ruth	Ed-So	Fayetteville
Wofford, Connie Watson	E-T	DeQueen
Wolf, Ford	A-J	Fayetteville
Wolf, George David	A-So	Fayetteville
Wolfenbarger, Ruby May	Ed-So	Fayetteville
Womack, Carlos Paynor	A-F	Fayetteville
Wood, Harry	A-So	Mammoth Spring
Wood, Maurice Freeman	Ed-F	Paragould
Wood, Nora Lee	HE-J	Arkadelphia
Woodall, Frank	E-F	Little Rock
Woods, Dale Brown	A-F	Melbourne
Woodson, Anne Afton	Ed-Sp	Hartford
Woodward, Thelma Margaret	Ed-F	Heavener, Okla.
Woodworth, Maxine	HE-F	Little Rock
Woodyard, William Henry Lee	A-So	Judsonia
Woolsey, William Walter	A-F	Ozark
Word, Orville Charles, Jr.	E-Sr	Fort Smith
Worsham, Jessie Lee	Ed-F	Fayetteville
Wright, Gosso Windle	A-F	Van Buren
Wright, Olive Agnes	A-J	DeVall's Bluff
Wylie, Richard D.	E-T	Carthage
Yarborough, James Richmond	A-F	Cotton Plant
Yarborough, Lynn	Ed-So	Booneville
Yates, Margaret Leota	Ed-F	Fayetteville
Zachry, Bonnie	A-So	Magnolia
Zinn, Grover A.	A-Sr	El Dorado

SUMMER SESSION, 1923

*Graduate Students

Aarant, Lois Floriene	Chidester	Abington, Alpha Beam	Beebe
Aaron, Rosa Ellen	Springdale	Abington, Thomas Eugene	Beebe
Abercrombie, Erma Christine		Adams, Estha Druessilla	Fordyce
	Cashion, Okla.	Adams, Inez	Texarkana

- Adams, Roy Hamilton Muskogee, Okla.
 Addis, Mrs. Gertrude Whaley Emmet
 *Albright, Spencer Delancy Fayetteville
 Alder, Zula Buchanan Fayetteville
 Allen, Ora Mae DeQueen
 Allen, Sue Scott Genoa, Italy
 Allen, William E. Mansfield
 Allred, Ernest Gerlen Pottsville
 Allison, Florence May Phelan Inola, Okla.
 Allison, Virgil Otis Inola, Okla.
 Alston, Irl Chcotah, Okla.
 Anderson, Elmer John Louann
 Anderson, Geneva Rose Fayetteville
 Andrews, Mary Olive Cotton Plant
 *Andrews, Sarah Mary Rogers
 Angus, Robert Morton Fayetteville
 Arnold, Logan Henry St. Joe
 Askew, Margaret Ellen Fayetteville
 Atkins, Edward Carl Chidester
 Austin, Helen M. Fayetteville
 Austin, O. U. Ola
 *Austin, Robert Louis Ozark
 Babb, Bernice Fort Smith
 Backstrom, Eliza Richton, Miss.
 Baggett, John Bass Fayetteville
 Baggett, Della Brinkley
 Bagwell, Anna Jean Sulphur Springs, Texas
 Bain, Melvin Herman Slaton, Tex.
 Baker, Sarah Jane Farmington
 Bandeen, Florence Elizabeth Fayetteville
 Banks, Jefferson Johnson
 Barham, William Calvin Prescott
 Barlow, Mae North Little Rock
 Barr, Laura Corinne Newport
 Barr, Mrs. N. B. Hope
 Barron, Mattie L. Fayetteville
 Barton, Clib Fort Smith
 Bass, Beulah Picher, Okla.
 Bass, Ferne Eunice Picher, Okla.
 Bass, Oscar Winfred Fayetteville
 Bates, Mrs. T. L. Fayetteville
 Bates, T. L. Fayetteville
 Batjer, Margaret Quay Rogers
 Beard, Charles Earl Fort Smith
 Beasley, Ernestine Stamps
 Beasley, Ray Basil Eldorado, Ill.
 Beauchamp, Charles Henry Fayetteville
 Beck, Thomas Green Forest
 Bell, Luther Franklin Wesley
 Bennett, Donna Scranton
 Berry, Virginia Aldridge Charleston
 Bess, John William Fayetteville
 Betchel, Virgil Bates
 Bickerstaff, Mary Flora Marianna
 Binns, James Oscar Kellyville
 Bird, Hazel Waldron
 Bishop, Mark Nashville
 Black, Ildra Grace Fayetteville
 Black, Ina Berenice Siloam Springs
 Black, Mary Elma Fort Smith
 Black, Norine Booneville
 Blackmun, Lynn Allen Fayetteville
 Blackshare, Lois Erline Piggott
 Blackshare, Louisa May El Dorado
 Blackwell, Mary Maude Little Rock
 Blair, Floy Conway
 Blair, Lois Elaine Conway
 Blair, William Adams Enterprise, Okla.
 Blakemore, Eva Springdale
 Eledsoe, Jennie Bernice Little Rock
 *Blodgett, George Frank Jacksonville
 Bocquin, Mary Emma Fort Smith
 Blood, Grace Louise Fayetteville
 Bloch, Eva Estella Decatur
 Bollenbacher, Nellie Bly Fayetteville
 Bord, Madison N. Fayetteville
 Bonner, Madge Vandervoot
 Boone, Olive Elkins
 Boyd, Bernice Isabelle Fayetteville
 Boyd, Mary Turley Fayetteville
 Bracey, Carol Eugenia Little Rock
 Brady, Clara J. Siloam Springs
 Brady, Evabelle Siloam Springs
 Brasher, Beryl Hey Houston, Tex.
 Brentlinger, Cleo Belle Springdale
 Brewer, Joseph Edgar Collinsville, Tex.
 Brewster, Marguerite Pine Bluff
 Bridenthal, I. G. Springdale
 Brietz, Willie Mae Little Rock
 *Bright, V. S. Fountain Hill
 Brindley, Portia West Fork
 Brooks, Charles S. Bedias, Tex.
 Brown, Lula Ellen Lincoln
 Brown, Orbie Anderson Amity
 Brown, Robert Mouton Cotton Plant
 Buchanan, Betty Velma Prairie Grove
 Buchner, Thomas Runnells Rochester, Tex.
 Bunch, Joel Ernest Kingston
 Bunch, William B. Kingston
 Bunker, Maude Ethel Fayetteville
 Bunker, Nelson French Lake Village
 Burke, Henry Fayetteville
 Burke, Ollie David Fayetteville
 Burns, Coleman Dean New York, N. Y.
 Burns, Lucille Hot Springs
 Buskirk, Bea Prairie Grove
 Buskirk, Beulah Prairie Grove
 Butler, Garvin S. Melbourne
 Byrd, Eunice White Prescott
 Byrd, Samuel Fayetteville
 Byrd, Mrs. Samuel Fayetteville
 Byers, Uriel E. Bridgeport, Tex.
 Cabe, Charles Louis Stamps
 Calico, Fannie Lauerina Baldwin
 Calico, Gladys Magnolia Baldwin
 Callicott, Derley Mitchel Harrison
 Callaway, Virginia Arkadelphia

Calvert, Irma Anita	Toadlina, N. M.	Davidson, Samuel Lafayette	Conway
Cannon, Lena	Mayfield	Davies, Mollie Payne	Paragould
Cantrell, Seldon J. Blue	Ridge, Tex.	Davis, Anna Belle	Lowell
Carlisle, Inez Boone	Fayetteville	Davis, Ferne Blanche	Mansfield
Carnahan, Mabel Melissa	Prairie Grove	*Davis, John B.	Chelsea, Okla.
Carnog, Ethel June	Charleston	Davis, Lena Mozelle	Fayetteville
Carr, Robert Wheeler	Booneville	Dawson, Marian	Stephens
Carter, Nell	Siloam Springs	Deal, Phillip Lafayette	Lonoke
Carter, Ruetta	Siloam Springs	Dearing, Fay Kathleen	Prairie Grove
Carter, Sabine	Fayetteville	Dennis, Marie	North Little Rock
Cate, Louis Alvin	Fayetteville	Dennis, Martha	Waldo
Caudle, Jewell Mary	Fayetteville	Dial, Charles M.	Holly Grove
Caufman, Walter	Winslow	Dickson, Elbert	Longview, Tex.
Chandler, Patsy Maemie	Stamps	Dixon, Mary	Lincoln
Chappell, Lillian Julia	Springdale	Dold, Carthel, William	Cane Hill
Chitwood, Hoyt Mozart	Magazine	Dold, Julia Marie	Cane Hill
Chrastek, Cryll	Okla. City, Okla.	Donaldson, Annie Louise	Rector
Clark, Alverne Mae	Van Buren	Dooling, Louise	Marianna
Clark, Frances Grace	Ireland, Tex.	Douglas, Bethel Sophronia	Highfill
Clark, Lloyd Carmean	Fayetteville	Douglas, Martha Maney	Cotton Plant
Clark, Mattie Biscoe	Arkadelphia	Dowd, Willie J.	Prescott
Cobb, Bess	Fayetteville	Dowell, Anna Louise	Fayetteville
Cobb, Jessie Ray	Fayetteville	Doyle, Bertha Ethel	Winslow
Cochran, Henry	Russellville	Duke, Loucille Caswell	Waldron
Cole, Otho Lee	Mena	DuLaney, Thomas Alfred	Quitman
Cole, Willie Lee	Little Rock	Dunavant, Rachel Dotter	Keiser
Colvert, Clyde Cornelius	Eagle Mills	Dupras, Edmond	Fayetteville
Combs, Jasper Henry	Kingston	Durham, Osborne Burnard	Prairie Grove
Compton, Agnes	Batesville	Dyer, Mrs. Annie Bess	Fayetteville
Conine, Effie	Batesville	Dyer, Cyrus Leavitt	Fayetteville
Conley, Vada Marie	Rogers	Earle, John Bayliss	Fayetteville
Connell, DeBert W.	Hot Springs	East, Jack	Texarkana
Cook, Alice Virginia	Fayetteville	Easterling, Walter Danies	Eudora
Coonfield, Ben Randolph	Lowell	Eaton, Saba J.	Brownwood, Tex.
Cordry, Asbury L.	Clifty	Elliott, Lloyd Carlton	Parks
Corley, Powell Reuben	Fort Smith	Ellis, Alma L.	Fayetteville
Cotton, Ellen Grace	Fayetteville	Ellis, Jessie B.	Searcy
Cotton, John Leonard	Fayetteville	Ellison, Henry Fred	Atkins
Cox, Joe	Afton, Okla.	Eubanks, James Earl	Garfield
Cox, Lydia Beatrice	Vale	Eubanks, Ruth Faye	Garfield
Couch, Mrs. Grover	Fayetteville	Evans, Carrie Belle	Paraloma
Cox, Vera Louise	Fayetteville	Evans, James Milroy	Osage, Okla.
Crabtree, Pauline Henrietta	Fort Smith	Evans, Lee Otis	Pea Ridge
Crenshaw, Alice	Fayetteville	Ewart, Elsie Ardella	West Helena
Crockett, Charles Hayes	Fayetteville	Ewart, James Burns	Booneville
Croom, Molly Lane	Fort Smith	Farmer, Archie Madison	Asher, Okla.
Cross, Mary Elizabeth	Pine Bluff	Farrior, Bonnie Lee	Russellville
Cruse, Bess	Fayetteville	Farrior, Dorothy	Russellville
Cummings, Robert Paul	Springdale	Feaster, Sue	Princeton
Cunningham, Irene Elizabeth	Fayetteville	Ferguson, Sister Angela	Fayetteville
Cutts, Nellie Beatrice	Lincoln	Fields, Cassie	Arkansas City
Dailey, Ozzie	Fayetteville	Fincher, Julia Evelyn	Waldo
Danforth, Victor William	Lincoln	*Finley, Charles H.	Texarkana
Daniel, Nellie Mae	Fayetteville	Fiori, Clelia	Tontitown
Daniel, Mary Ida	Fayetteville	Fitch, Larkin	Hindsville
Daniel, Robert Jesse	Sweetwater, Tex.	Fleak, Arthur Berl	Fayetteville
Daniel, Thelma	Pine Bluff	Fleak, Mable Harris	Fayetteville
Darden, Ruth Warren	Searcy	Flinn, Eva Marie	Prairie Grove
Davidson, Eddis Ioma	Little Rock	Flynn, Gertrude	Fayetteville
		Foley, Ralph Timothy	Fayetteville

- Ford, William M. Eldorado, Okla.
 Fordemwalt, Vera Stuttgart
 Forrest, James Gaines Richmond, Tex.
 Foster, Della Mae Picher, Okla.
 Fox, Edwin Walker Berryville
 Franklin, Herman F. Ft. Worth, Tex.
 Frazier, Geneva Grace Cincinnati
 Frasier, Waldo, Ozark
 Freeman, Mary Louise Ashdown
 Fry, Os Berry Chin Lee, Ariz.
 Fullbright, James William Fayetteville
 Fuller, Ishamel Worth Miami, Okla.
 Fuller, Sybil Josephine Waldron
 Fuller, Mrs. Minnie U. Magazine
 *Funk, Gladys Amy Rogers
 Galloway, John Stanley Poducuh, Tex.
 Gardner, Tennie Paralee Lambert
 Gardner, Thomas Sherwood Marietta, Okla.
 Gardner, William Wesley Richmond
 Garrett, Florence Eugenia Van Buren
 Garrison, Benjamin Franklin St. Joe
 Garrison, Esta Villa Fayetteville
 Garrison, Thelma Desiree Fayetteville
 Gaston, Walter J. Warren
 Geary, Charles Watson Henderson
 Geis, Peter Herman Hartford
 Gibbs, Gussie Long Arkadelphia
 Gibson, Newell Clarence Eureka Springs
 Gibson, Vera Pauline Atlanta, Tex.
 Gibson, Wayne Folk Eureka Springs
 Gillespie, Mildred Fayetteville
 Gilstrap, Marguerite St. Paul
 *Gist, Joseph Elman Fayetteville
 Glover, Mrs. D. W. Little Rock
 Glover, Daniel Woodered Little Rock
 Goldman, Charles T. Evansville
 Gordan, Florence Gladys Little Rock
 Gore, Ulys Roy Farmington
 Graves, Arlin Inez McKinney, Tex.
 Graves, Leda Belle Springdale
 Greathouse, Margaret Fayetteville
 Greenhaw, Frank Pierce Harrison
 Greene, Ruth Vida Buckner
 Greene, Sister Mary Agatha Fort Smith
 Greene, William Edgar Huntington
 Greer, Jessie May Horatio
 Grieg, Nita Van Buren
 Gullis, Nannie Augusta
 Guthary, Andy McClinton Gentry
 Hack, Charles San Antonio, Tex.
 *Hale, Alfred Clay Athens
 Hale, Ethel E. Prairie Grove
 Hale, Grover C. San Antonio, Tex.
 Hall, Orville Jacklin Springdale
 Hall, Ruth Wilson Arkadelphia
 Halton, Ruth Mena
 Hamm, Garland M. Batesville
 Hancock, Doy Lee McAlester, Okla.
 Hanes, Hall William Chicago, Ill.
 Haney, Olen Knight Aurora
 Hankins, Essie Ogden
 Hanks, Ora Joe Johnson
 Hanna, Mary Virginia Fayetteville
 Harp, Elizabeth Pitkin
 Harp, Pearl West Fork
 Harris, Esther Durham
 Harris, Fred William Cotton Plant
 Harris, Harold Hinkle Melbourne
 Harris, John B. Greenwood
 Harris, William Bourke Melbourne
 Harrison, Mayme Lowell
 Hastings, H. H. Weldon
 Hathcock, Helen Lee Locust Bayou
 Haulum, Henry Earnest Walnut Ridge
 Hawn, Fred Arthur Fayetteville
 Headstream, Vern Olvey
 Hamphill, Martha Janet Chanute
 Henbest, Wayne Albert Fayetteville
 Henderson, Pearl Mae Lincoln
 Henderson, Velma Ema Mena
 Hendrey, Waldersee Bragier Biglow
 Henry, Clara Lake Village
 Hermance, Albert Howard Springdale
 Highfill, Coral Hester Gentry
 Highfill, Franklin Smith Gentry
 Hight, Jack Fayetteville
 Hill, Earl Alexander Coyle, Okla.
 Hill, Ethel Charleston
 Hill, Martha Jane Prairie Grove
 Hilton, Litben Lewis Siloam Springs
 *Hirst, Claude Marvin Prescott
 Holloway, Keith Leaming Conway
 Holmes, Odus Garfield Belfonte
 Hollifield, Clara Ruth Rogers
 Honea, Ben W. Lonoke
 Hootin, George C. Checotah, Okla.
 Housen, Jerry G. Scranton
 *Howard, Elwyn Barthley Beebe
 Howard, Jack Houston Mart, Tex.
 Howard, Virgil Marie Mineral Springs
 Hudgins, Mary Dengler Hot Springs
 Hughes, Stephen Claybourne Fayetteville
 Hull, Mrs. Mable Grace Thayer, Kan.
 Hulse, Margaret Martha Prairie Grove
 Humphrey, Roxanna Lucille Russellville
 Hunnicutt, Addie Lovett Mountainburg
 Hutchens, Edith U. Prairie Grove

Ingels, Neil Barton	Fort Smith	Lamb, Tossye Ruby	Lola
Jaggers, Beulah Elizabeth		Lambert, Katherine	West Fork
	Prairie Grove	Lane, Pearl Lillian	Van Buren
James, Auldy R.	Porter, Okla.	Lane William L.	Bridgeport, Tex.
James, Ruth Virginia	Van Buren	Lavendusky, Albert Max	
Jewell, Hazen Vivian	Harris		East Bernard, Tex.
Jimerson, Lillian Ellen		*Lavendusky, Mrs. A. M.	
	Sulphur Rock		Fayetteville
Jimerson, Marie	Sulphur Rock	Lawson, Ernest	Scottsville
Jimerson, Wilma Logan		Lea, Lottie	Princeton
	Sulphur Rock	Leflar, Robert Allan	
Jobe, Virgil B.	Fort Smith		Siloam Springs
Johnson, Allean Ament	Foreman	Leighton, Neuman	Cotton Plant
Johnson, Florence Wealthy		Leslie, Marie	Nashville
	Fayetteville	Lewis, Dena	Van Buren
Johnson, Maurean Mildred		Lewis, Dachia Inez	DeQueen
	Foreman	Lewis, Henry George	Lamar
Johnson, Pat	Fayetteville	Lewis, Marjorie Martin	Bentonville
Johnson, Virginia Geraldine		Lewis, Murray Francis	Fayetteville
	Forrest City	Lighton, Peggy Sue	Fayetteville
Johnson, Bertie Summerville, Tenn.		Lincoln, Lydia Elizabeth	
Johnson, Bessie Mae			Van Buren
	Summerville, Tenn.	Little, Hattie Aileen	Pine Bluff
Jones, Alice Burke	Charleston	Linton, Thomas Martin	Hoyt, Okla.
Jones, Mrs. Alice	Prairie Grove	Little, Marshall Maurice	Bauxite
Jones, Clint	Delaney	Lloyd, James Clifton	Panama, Okla.
Jones, Dorothy	Fayetteville	Logan, Ernestine Lenoir	
Jones, Kate Leona	Maysville		Little Rock
Jones, Mabel Alice	Prairie Grove	Long, Jewell	Fayetteville
Jones, Prudence Pauline	Summers	Lovell, Eunice Beatrice	Springdale
Jordan, Edna Garlington		Lovell, Ulysses Andrew	Bradford
	Fayetteville	Ludwick, Eva L.	Okmulgee, Okla.
Jordan, Kara	Fayetteville	Lund, Carl Frederick	
Judy, Frieda Grace	Waldron		Red Oak, Okla.
Karnes, Bernice	West Fork	Lynn, Joseph William	Bentonville
Karnes, Glenn	West Fork	Lynn, Ruth Margaret	
Karnes, Oscar Oliver	Pitkin		Ft. Scott, Kan.
Karr, David Lowndes	Wister, Okla.	Lyon, William Alexander	Camden
Keeter, Gattie B.	Bruno	McCain, Iona	Little Rock
Kehe, Luke	Foransas, Tex.	McCants, Hattie Donaldson	
Kelley, Pansy B.	Eureka Springs		Osceola
Kellogg, Ruth Hosmer	Van Buren	McCarroll, Otto Greene	Little Rock
Kemp, Bradford James		McCatherine, Thelma	Fayetteville
	Sherman, Tex.	McCaul, Frances Ellen	
Kennan, Clara Bernice	Rogers		North Little Rock
Kennard, Mary E. Eugenia		McCaul, Hettie Bee	
	Fayetteville		North Little Rock
Kennedy, Dale Edgar	Waldo	McCloy, Joseph Dixon	Monticello
Kennedy, Harvey William	Waldo	McCawn, Dora Elizabeth	
Kennedy, Mary Etta	Lake Village		Okla. City, Okla.
Kerr, Olive Mae	Fayetteville	McCawn, Mary Olive	Little Rock
Kersh, Warner William	Hartford	McCray, Susie Agatha	Wilton
Keyes, Fila	Board Camp	McDonald, Angus Henry	
Kiltz, Bernice	Jonesboro		Fayetteville
Kimbro, John Homer	Tillar	McDonald, Louetta Harmon	
Kimbrough, Felix Albert			Elm Springs
	Dutch Mills	McGaughy, Mary Frances	
Kindred, Clara	Fort Smith		Pine Bluff
King, Wendell Holland		McGee, Borden Matthew	
	Siloam Springs		Handley, Tex.
Kirkpatrick, Insley Johnson		McGill, Annie Scott	Chidester
	Summers	McGraw, Alline	El Dorado
Kitchens, Bert	Waldo	McGraw, Sallie Chaney	Gillett
Kitchens, Marguerite Thelma		McGuire, John Clifford	Piggott
	Magnolia	McKenzie, Arthur R.	Booneville
Knowlton, Mary Claire	Little Rock	McKeown, John Gordon	Springdale
Ladd, Blanche	Danville	McKinley, Golden	Fayetteville

- McKinney, Callie Bess Bearden
McKissock, Gordon Russell
James, Tex.
McLaughlin, Florence Myrtle
Eureka Springs
McMett, James Luther Arkadelphia
Magers, Raymond Gabriel
Murchison, Tex.
Magness, Guy Norton Lead Hill
Magness, William Grady Lead Hill
Mantegani, Norina Tontitown
Mann, Martha Gertrude Pine Grove
Marshall, Susan Etta College Sta.
Martin, Edgar F. Gentry
Martin, Homer G. Everton
Martin, James Walker Marcella
Martin, Lillian Danville
*Martin, Lillian Edwin
Weatherford, Tex.
Martin, Lula Hazel Fayetteville
Mason, Arthur Dixon Fort Smith
Massey, Ruby Gladys Batesville
Massey, Walter Blake Warren
Matlock, Lucy Mae Fort Smith
Matthews, Perry Eldridge
Calico Rock
Mayo, Alma Willie Greenwood
Maxwell, Ida Elizabeth Monticello
Means, Laura Mathio Charleston
Meeker, Bertha Gertrude Decatur
Meeker, Orval George Decatur
Melton, William Robert Hazen
Metcalfe, Lula Belle Evening Shade
Meyer, Carrie Anna Mablevale
Middlebrooks, Estelle Hope
*Middlebrooks, Pearl Hope
Mikler, Richard Crockett Magazine
Miles, Gertrude Ellis Fayetteville
Millar, George Dana Little Rock
Miller, Alma Harris
*Miller, Bennie Little Rock
Miller, Margaret Lee
Siloam Springs
Miller, Richard White Fayetteville
Mills, Lola Marie Springdale
Mills, Vernon Scott Stephens
Mitchamore, Clarence E.
Brenham, Tex.
*Moffitt, Hugh Price Fayetteville
Moody, Terry Weaver DeQueen
Moore, Mrs. Florence Lincoln
Moore, Marie N. Osceola
Moore, Robert Lee Duncor, Miss.
Moore, Thomas Lafayette
Floresville, Tex.
Morganson, Glenn William
Snyder, Okla.
Morganson, Lillie Fay Snider, Okla.
Morris, Mrs. C. E. Little Rock
Morris, Nettie C. Fort Smith
Morrison Mary Helene Fort Smith
*Mott, Albert Sarcouxie, Mo.
Mott, Lilla Ann Sarcouxie, Mo.
Mower, Homer Philip Moulton, Ia.
Moyers, Kate Blue Ridge, Tex.
Naill, Nell May Bentonville
Nation, Dorothy Elizabeth
Fayetteville
Neal, William E. Holly Grove
Neff, Alice Carry Chanute
Nelson, Mildred Estelle Stamps
Newbegin, Mrs. J. B. Texarkana
Nichols, Earl Greer Ozark
Nicholson, James William Cane Hill
Nott, Leona Winslow
Nowlin, Ruby Phillips Yellville
Nuckols, Pansy Etoile
Prairie Grove
Nyberg, Elsie Kingsburg, Cal.
Oakes, Algie Edgar Bentonville
Ogle, Ina Mae DeQueen
Okelly, Arbie Adrian Little Rock
O'Kelley, R. Edwin Blue Mountain
Olin, John Frank Fayetteville
Orr, Mrs. E. M. Hot Springs
Orr, Nancy May Hot Springs
Osborn, Charles Alexander
Dallas, Tex.
Osburn, James J. Winslow
Owen, Fayenette Fayetteville
Owens, Margaret Amelia Rogers
Paddock, Charles Samuel
Fayetteville
Page, Della Maye Sulphur Rock
Paine, Paul Adkins Van Buren
Parsley, Bess Little Rock
Paisley, William Merrell
Fayetteville
Pankhurst, Homer Searl
Lafayette, Tex.
Parker, Laura Corrinna Dardanelle
Parker, Parker Dardanelle
Parker, Thelma Icell Fort Smith
Parker, William M. DeVall's Bluff
Paris, Ray Hezekiah Mena
Parks Irene Mater Summers
Parsors, Katherine Ruth Texarkana
Patterson, Octavia Paris, Tex.
Pattillo, Jean C. Fayetteville
Paulk, Vera Fouke
Penix, Lex Lanier Lead Hill
Pennington, Mary Lee
Centralia, Okla.
Pettigrew, Lucy E. Charleston
Pettigrew, George M. Fort Smith
Pettigrew, Mary Katherine
Fort Smith
Phillips, James Carroll
Sarcouxie, Mo.
Phillips, Lois Isabelle Arkadelphia
*Phipps, W. E. Clarendon
Phipps, Mrs. W. E. Clarendon
Phipps, Virginia Fayetteville
Pickens, Thelma Batesville
Pigg, Nellyne Cynthia
Shawnee, Okla.
Pitts, Albert Heavener, Okla.
Pitts, Gertrude Little Rock
Pitts, Margaret Frances Lincoln
Pitts, Sterling Hardy Lincoln
Pixley, William C.
Mt. Enterprise, Tex.
Plank, Nellie May Decatur

- *Poe, McDonald Waldron
 Poole, Charles Dilmon Tyroneza
 Pollock, Otto Gilbert Holdenville, Okla.
 Porter, Jewell Willie Prairie Grove
 Porterfield, Laura Belle Fayetteville
 Posey, Deborah Batesville
 Sulphur Springs, Tex.
 Potter, Mary Spencer Marianna
 Warrensburg, Mo.
 Powell, Mrs. George W. Fort Smith
 Fayetteville
 Powell, Ruth Van Buren
 Texarkana
 Powell, William Lea Paris
 Fayetteville
 Proctor, Margaret Iola Florence, Tex.
 Junction City
 Proctor, Nan Frances Tulsa, Okla.
 Junction City
 Puckett, Marion Rogers
 Quick, Alice Leora Sulphur Springs
 Quick, Hazel Lois Sulphur Springs
 Raines, Mrs. Edna Cotner Wilmar
 Rainwater, Alva Weir
 Walnut Ridge
 Ralston, Lily May Charleston
 Ramsey, Gayle Sulphur City
 Ramsey, Leveta Sulphur City
 Ramsey, Virgil Sulphur City
 Rankin, Clyde Earle Springdale
 Rankin, Edna Loraine Springdale
 Reed, Ruth Springdale
 Reeser, Gladys Ellen Jacksonville
 Reid, Charley Trippe Poteau, Okla.
 Reid, Nancy Adgie Leola
 Reid, Thompson Talequah, Okla.
 Richardson, Ellen Earle
 Fayetteville
 *Richardson, Irene Lucille
 Heber Springs
 Rieff, Thelma Katherine
 Fayetteville
 Riegler, Hartman Little Rock
 Riegler, Mrs. Mary H. Little Rock
 Rigsley, Vincent Marsh Fayetteville
 Ritchie, Frances Hildred Hardy
 Ritchie, Ora Faye Hardy
 Roberts, Lurelia Fayetteville
 Robins, Cener M. Harris
 Robinson, Katie Vaye West Fork
 Robinson, Lewis Edwin Lewisville
 Robinson, William Thomas Lonoake
 Robbins, Rector Allen
 Telephone, Tex.
 Rodgers, Joseph Konowa, Okla.
 Rogers, Emma Winchester
 Rogers, Mildred Fayetteville
 Rogers, Vera Hazel Arkadelphia
 Root, Duke Martin Fayetteville
 Rowe, Ruby Mae Mineral Springs
 Ross, Aetna Dean Kingsland
 Ross, Dewey Talbert Fayetteville
 Rouw, Elsie Inez Van Buren
 Rowe, Ruby Greenwood
 Rowley, Lucy Oerton Reydel
 Ruddick, Jewell Garfield
 Ruffner, Ora Fanell Walnut Ridge
 Ruppel, Helen Christine
 Fayetteville
 Ruppel, Margaret Fayetteville
 Russell, A. Jay Berryville
 Russell, Vina Gravette
 Rutherford, Gladys Catherine
 Fayetteville
 Rutherford, William Alexander
 Batesville
 Rives, Eugenia Marianna
 Ryall, Sister Mary Raphael
 Fort Smith
 Sadler, Grace Estelle Van Buren
 Sadler, Winord Howe Paris
 Sallee, Albert Stenen Van Buren
 Salyer, Robert H. Florence, Tex.
 Sanders, Robert Emmett
 Tulsa, Okla.
 Scherder, Sister Cyrilla Fayetteville
 Schilling, George Silas Fayetteville
 Schultz, James Wilson
 Garwin, Okla.
 Scott, Alta E. Rogers
 Scott, Emma Margaret Little Rock
 Scott, Mildred Oakdale, La.
 Scriener, Arthur Coy Tray, Tex.
 Sealey, Mrs. Emma Lela
 Fayetteville
 Shafer, Beulah Estelle Fayetteville
 Shafer, Theodora Genevieve
 Fayetteville
 Sharrock, Clyde R. Prairie Grove
 Shearer, William Francis Lincoln
 Shelley, Sebastian Manson Midland
 Sherman, Mrs. H. E. Marvell
 Sherman, Henry Emmett Marvell
 Sherman, Henry Emmett, Jr. Marvell
 Sherwin, Marjorie Allison
 Sulphur Springs, Tex.
 Shinn, Martha Elizabeth Harrison
 *Shinn, William Darrell Harrison
 Shipley, Elizabeth Fayetteville
 Shultz, Mrs. A. D. Russellville
 Shurley, Marion Irwin
 Wilburton, Okla.
 Simmons, S. Vivian Urbana
 Simon, Patrick Van Buren
 Simpson, John D. Summers
 Singleton, Mary Elizabeth
 Fort Smith
 Skelton, Hattie Hazel Valley
 Slaughter, Vera Beners Fayetteville
 Smead, Leonard C. Camden
 Smith, Abby Jane West Point
 Smith, Mrs. Amanda Brady Mena
 Smith, Annie Summers
 Smith, Bonn Viola Fort Smith
 *Smith, Byron T. Springdale
 Smith, Carl A. Fayetteville
 Smith, Charles McDanel Paris
 Smith, DeWitt McKinley Luxora
 Smith, Frank Harold Fayetteville
 Smith, George Wilson
 Canton, Okla.
 Smith, John Ira Tyro
 Smith, Louise Ethel Pine Bluff
 Smith, Marguerite Blanche
 Little Rock

- Smith, Marjorie Ellen Waldron
 Smith, Milree Mena
 Smith, Norma Frieda Winslow
 Smith, Olive Bernice Little Rock
 Smith, Olive Mildred El Paso
 Smith, Pearle Armon Hamburg
 Smith, Ruth Ruby Winslow
 Smithson, Ethel Ogden
 Smythe, Katherine Jennings
 Fort Smith
 Sone, Margaret Evelyn Fayetteville
 Spann, Edward Washom, Tex.
 Spears, Marguerite Rowena
 Charleston
 Spence, Lillard Fayetteville
 Spencer, Clara Deweese Van Buren
 Spruell, Gladys May Fort Smith
 Steadman, Mary Imboden
 Stevenson, Bessie Little Rock
 Stepp, Clara Lieucenda Paragould
 Stoddard, Jane Eastman
 Little Rock
 Stokes, Dixon R. Springdale
 Strange, Benjamin F. Spiro, Okla.
 Stubblefield, Garland Augustus
 Fayetteville
 Sutton, Mrs. Gladys Raymond
 Marianna
 Swain, Danner Swain
 Swartz, Joseph Fayetteville
 Swink, Loretta Fayetteville
 Swink, Ruth Fayetteville
 Sword, Anna Louise Harris
 Taggart, Helen Elizabeth
 Fort Smith
 Talbert, Lois Marion Little Rock
 Talley, Herbert Lincoln
 Taylor, Mary Della
 Moundville, Mo.
 Taylor, Onia Lee Royse, Tex.
 Taylor, Ozro H. Bradford
 Taylor, Mrs. O. H. Bradford
 Terry, Marjorie Fayetteville
 Thompson, Jack Fayetteville
 Thompson, Ora Crosses
 Thurman, Erman Gene Summers
 Thurman, Nora Fayetteville
 Thrasher, Billie Bob Prescott
 Tidball, Paul Brandon Fayetteville
 Tillotson, Mrs. Mamie Palmer
 Mineral Wells, Tex.
 Tillotson, Vera Helen Prairie Grove
 Tippin, C. Lee Ola
 Toney, Ethel I. Harris
 *Trimble, Otis Carroll Osage
 Trimble, Mrs. Otis Carroll Osage
 Tucker, Mrs. Justin R.
 Western Grove
 Tuller, Allen Vernon Little Rock
 Tunnell, Kate Cincinnati
 Turner, James Paul Arkadelphia
 Uhl, Clara Augusta Plainview, Tex.
 Uhl, Edith Fayetteville
 Vanemburg, Bitha Alma Batesville
 Vanemburg, Luda Etna Batesville
 Van Note, Carl Otis St. Joe
 Van Note, Mary Martha
 Texarkana
 Volentine, Mrs. Nora McCoy
 West Fork
 Wade, Warren Benjamin Rogers
 Waddell, Ernest C. Abilene, Tex.
 Waggoner, Charles Edward Olvey
 Waits, Silas Lee Page, Okla.
 Wallace, Alverta Helen Harrison
 Walsh, Sister Mary Gabriel
 Fort Smith
 Ward, Florence Van Buren
 Washington, Ruby Westville, Okla.
 Watkins, Ada Frances Kingston
 *Watson, James R. Joplin, Mo.
 Watson, Maude Adele
 Mineral Wells, Tex.
 Watts, Gladys Lenora Hot Springs
 Weaver, Clara Dell Van Buren
 Webb, Ralph Fayetteville
 *Webb, William Harrison O'Neal
 Weir, Myrtle Truman Fort Smith
 Welborn, William Arnold
 Frederick, Okla.
 West, Lyle Amon Garfield
 Wheeler, Afton Kingston
 Whitcomb, Beulah Irene
 Fayetteville
 White, Clara Belle Nashville
 White, Herman Samuel Charleston
 White, Hugh Hayes Houston, Tex.
 White, Nathan Penley
 Ward Hill, Mass.
 White, Tuell A. Stilwell, Okla.
 Whitsett, Imogene Beryl Paragould
 Williams, Emmanuel Dewey
 Springdale
 Williams, George Los Angeles, Cal.
 Williams, Taylor Thomas
 Jacksonport
 Williams, Thomas Q.
 Ft. Worth, Tex.
 Williams, Thomas Littleton
 Mangam, Okla.
 Williamson, Melvin Edward
 Hanson, Okla.
 *Wilson, Carl Vanhorn Fayetteville
 Wilson, Gladys Grayel Gentry
 Wilson Wm. Thaddeus Fayetteville
 Winfrey, Donald Bean Fayetteville
 Winham, Susan Elizabeth
 Texarkana
 Winn, Robert George Winslow
 Winter, Rachel Evans Hartman
 Wood, Mrs. F. A. Bentonville
 Woodruff, Frances Aurora
 Fayetteville
 Wortham, Varvel J. Cincinnati
 Wright, Mrs. Fannie Arkadelphia
 Wright, Gasso Winkle Van Buren
 Wright, Mary Edith Little Rock
 Wyers, Robert Edwin Ozark
 York, Christa Mena
 York, Samuel Fort Smith
 Yowell, Myrtle L. Mansfield
 Zenor, Helen Fayetteville
 Zinn, Virgis Prairie Grove

COTTON CLASSING COURSE

SUMMER TERM, 1923

Allen, Sue S.	Magazine	Martin, James W.	Marcella
Dial, Chas. M.	Pine Bluff	Melton, W. R.	Hazen
Finley, Chas. H.	Texarkana	Reid, Thompson	Tahlequah, Okla.
Fuller, Minnie U.	Magazine	Tippin, C. Lee	Ola
McKenzie, A. R.	Booneville	Webb, Wm. H.	O,Neal

UNIVERSITY HIGH SCHOOL, 1923-1924

Appleby, Mildred	Fayetteville	Ellis, Frank	Fayetteville
Arnold, Kathrine	Fayetteville	English, Nadine	Fayetteville
Arnold, Lambert	Fayetteville	Eoff, Howard	Fayetteville
Ashe, Helena	Plainview	Ferguson, John	Farmington
Askew, Billy	Fayetteville	Fietz, Wilma	Fayetteville
Austin, Lee	Fayetteville	Finkler, Asa	Porum, Okla.
Bates, Dorothy	Fayetteville	Fishback, Herbert	Fayetteville
Batjer, Jack	Fayetteville	Fox, Georgia	Plainview
Batjer, Robert	Fayetteville	Frizzo, Gabriello	Valier, Ill.
Beauchamp, Raymond	Fayetteville	Fugitt, Yvonne	Fayetteville
Blanshard, John Jr.	Fayetteville	Gatlin, Ruth	Fayetteville
Blew, Bessie	Fayetteville	Gilstrap, Marguerite	St. Paul
Blood, Grace	Fayetteville	Goodwin, James	Fayetteville
Brewster, Eugene	Cane Hill	Graham, Marie	Fayetteville
Brown, Herbert	Fayetteville	Gregson, Edith	Fayetteville
Buchanan, Lucy	Cane Hill	Gregson, Lillian	Fayetteville
Buchanan, William	Cane Hill	Griffith, Bill	Fayetteville
Burnip, Buryl	Fayetteville	Gruisinger, Constance	Fayetteville
Burnip, Kathrine	Fayetteville	Haizlip, Ralph	Hot Springs
Bush, Mary	Evansville	Hale, Arthur	Fayetteville
Butler, Gladys	Fayetteville	Hale, Harrison	Fayetteville
Cady, Ruth	Fayetteville	Hall, Lynn	Eagle Mills
Carlisle, Inez	Fayetteville	Harrell, John	Fayetteville
Carlisle, Jack	Farmington	Harris, Elizabeth	Fayetteville
Carson, Orbra	Fayetteville	Harris, Harold	Melbourne
Carter, Aulton	Fayetteville	Harris, Margaret	Fayetteville
Carter, Audrey	Fayetteville	Harris, Victor	Fayetteville
Carter, Roscoe	Fayetteville	Hart, Alton	Fayetteville
Carter, Sabine	Fayetteville	Hart, Randall	Fayetteville
Caudle, Fred	Fayetteville	Hathcock, Martha	Fayetteville
Caudle, Marguerite	Fayetteville	Hawn, Marcus	Fayetteville
Choate, Alice	Fayetteville	Hays, Lloyd	Fayetteville
Clark, Emele	Harris	Hays, Rudy	Fayetteville
Clark, Lloyd	Fayetteville	Henbest, Wayne	Fayetteville
Clark, Thelma	Fayetteville	Henderson, Lee	Fayetteville
Cox, Virginia	Fayetteville	Higginbotham, Mary	Mountain Home
Craig, Edwin	Bentonville		
Craig, James	Bentonville	Hight, Jack	Fayetteville
Crane, Marie	Springdale	Holder, J. B.	Fayetteville
Crawford Charles	Pettigrew	Huffman, Earl	Fayetteville
Cunningham, Ralph	Fayetteville	Hughes, Stephen	Fayetteville
Curtis, Harold	Fayetteville	Jackson, Frances	Fayetteville
Davidson, Irene	Fayetteville	Jackson, Pearle Reed	Fayetteville
Davidson, Nicholas	Fayetteville	Johnson, Gladys	Fayetteville
Derflinger, Gladys	Fayetteville	Johnston, Ellie	Fayetteville
Diven, Bryan	Johnson	Johnston, Omah	Fayetteville
Dowell, Allen	Fayetteville	Key, Thelma	Fayetteville
Dowell, Ruth	Fayetteville	Late, Frank	Johnson
Drake, Dorris	Fayetteville	Layton, Augustus	Yellville
Droke, Vera	Fayetteville	Lemley, Beatrice	Fayetteville
Earle, Mary	Fayetteville	Lewis, Murry	Fayetteville
Ellis, David	Fayetteville	Lichlyter, Hester	Johnson

Lichlyter, Louis	Johnson	Roberts, Richard	Fayetteville
Loden, Joe	Fayetteville	Robinson, Grace	Fayetteville
Longino, Fanny B.	Fayetteville	Rogers, Mildred	Fayetteville
May, Wendall	Brentwood	Rudolph, Ruth	Fayetteville
Mayes, Helen	Fayetteville	Sanders, Vernon	Elkins
Miles, Baxter	Fayetteville	Seamster, Bernal	Fayetteville
Miller, Richard	Fayetteville	Seamster, Lucille	Fayetteville
Millsap, Audia	Fayetteville	Sharp, Lamar	Fayetteville
Morriss, Louise	Fayetteville	Shipley, Harold	Fayetteville
Morrow, Richard	Fayetteville	Smith, Chester	Crystal Springs
Mulford, Sara Lou	Fayetteville	Smith, Mozelle	Fayetteville
Mustian, Audis	Elm Springs	Sone, Margaret	Fayetteville
Mustain, Cleathel	Elm Springs	Stanford, Alice	Fayetteville
McAllister, Donald	Fayetteville	Stanford, Nellie	Fayetteville
McConnell, Ella	Fayetteville	Swink, Joe	Fayetteville
McCormack, Carrie	Fayetteville	Taylor, Maude	Fayetteville
McCormack, Irene	Fayetteville	Terry, Ethelyn	Fayetteville
McDonald, Rance	Elm Springs	Terry, Pauline	Fayetteville
McDonald, Worden	Fayetteville	Thompson, Clinton	Fayetteville
McGuire, Howard	Wagoner, Okla.	Thompson, Jack	Fayetteville
McNair, Pauline	Fayetteville	Thompson, Una	Fayetteville
Olin, Grace	Fayetteville	Thompson, Willie	Springdale
Oliver, Hearn	Fayetteville	Tuller, Vernon	Little Rock
Oliver, Reid	Fayetteville	Vail, Mildred H.	Harris
Peel, Mary	Fayetteville	Walker, Marguerite	Fayetteville
Perrill, Louis	Fayetteville	Watkins, Julian	Marvell
Pettitt, Ruby	Fayetteville	Watson, Cline	Fayetteville
Phillips, Hubert	Fayetteville	Webb, Milton	Fayetteville
Phipps, Virginia	Fayetteville	Webster, Ruth	Fayetteville
Pinkerton, Ralph	Fayetteville	Weir, Earline	Fayetteville
Pinkerton, Ruby	Fayetteville	Whitty, Margaret	Fayetteville
Platt, Emma	Fayetteville	Willingham, Russell	Yellville
Polk, Merrill	Fayetteville	Winfrey, Donald	Fayetteville
Radican, Lynn	Fayetteville	Winchester, Roberta	Fayetteville
Rice, Ora May	Fayetteville	Zuerker, Barbara	Fayetteville
Richardson, Ada	Wheeler	Zuerker, Elizabeth	Fayetteville
Roberts, Lurelia	Fayetteville		

SUMMARY

1923-1924

<i>College of Arts and Sciences:</i>		551
Graduates	8	
Seniors	52	
Juniors	69	
Sophomores	135	
Freshmen	272	
Specials	15	
<i>College of Engineering:</i>		277
Graduates	1	
Seniors	26	
Juniors	24	
Sophomores	47	
Freshmen	88	
Specials	8	
Trade Courses	83	
<i>College of Education:</i>		327
Graduates	6	
Seniors	28	
Juniors	38	
Sophomores	88	
Freshmen	154	
Specials	13	
<i>College of Agriculture:</i>		265
Graduates	2	
Seniors	33	
Juniors	43	
Sophomores	49	
Freshmen	86	
Specials	7	
Agricultural Training Courses	45	
Total		1420
*Duplicates		60
Fall, winter, and spring terms		1360
Summer Session		789
Cotton Grading Class		10
University High School		178
General Extension Classes		807
Correspondence Courses		773
Agricultural Short Courses		1118
Electric Metermen's Short Course		25
Commercial Secretaries' Short Course		17
Grand Total		5077

*Candidates for degrees in other colleges and for Teachers' Certificates in College of Education

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